Microwave Digital Archive
IEEE Microwave Theory and Techniques Society

1953-2002

MASTER INDEX

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Welcome

WELCOME:

The Microwave Theory and Techniques Society of the IEEE continues the task of indexing the IEEE Transactions on Microwave Theory and Techniques, and all other major publications including the IEEE Microwave and Wireless Components Letters (formerly called IEEE Microwave and Guided Wave Letters), as well as the digests of the IEEE International Microwave Symposium (IMS) and the Radio Frequency Integrated Circuits (RFIC) conference. This Microwave Theory and Techniques CD-ROM index updates the existing CD-ROM index for quick retrieval of archived information.

The complete MTT Digital Archive CD-ROM set can be ordered via phone, fax, E-mail or mail order:

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The section “Getting Started” in this Index tells you how to optimize the Acrobat Reader preferences to improve the readability of the document.

All papers were electronic files or images scanned from hard copy and converted to Adobe Acrobat PDF file format for cross-platform access. The viewing quality

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will vary with the size and quality of fonts used. Even though the viewing quality on your monitor may vary, all papers should print clearly. Remember that the quality of the some journal articles is not perfect, and that some photographs will not be as clear as Technicolor. Also, the optical character recognition is good but not perfect, so some spelling errors will occur. None the less, you can copy and paste the material for your own use and personal study.

The MTT CD-ROM index update was assembled from electronic files provided to us by Adam Philippidis at IEEE Headquarters.

If you find errors in the CD-ROM, e-mail a note to the current Editor of the Digital Archive project at Digital.Archive@mtt.org.

Many people have contributed the CD-ROM archival effort. The Digital Archive project was initiated by Charlie Jackson and Roger Pollard. During my tenure as Editor, Charlie Jackson, Manfred Schindler, Karl Varian have provided constant help and support. I would also like to acknowledge the hard work of the reviewers of the Index disk. I hope that I have implemented their ideas and corrections and it is my only responsibility if any errors are still left unidentified. Last but not least, I want to acknowledge the enthusiastic support by the team at InControl Productions, Inc. Special thanks go to Barbara DiEdwardo for her assistance in producing the new Index disc.

Thank you and enjoy!
Luciano Boglione,
Editor,
Microwave Digital Archive Project

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Be sure to read the following on how to achieve the best performance with this electronic guide.

RECOMMENDATIONS FOR OPTIMAL PERFORMANCE

In order to take full advantage of the performance capabilities of this collection, and because this archive spans multiple CD-ROMs, we recommend that you do the following.

1. To use all features provided for this archive you must have Acrobat Reader 5.0 plus Adobe's Search plug-in and the ICPI SmartLink™ plug-in for Adobe Acrobat Reader that enables links across CD-ROMs.
   If you have not installed these components from this CD-ROM, you should read the README.TXT file located on the root directory of this CD-ROM for instructions on how to install the plug-in. (The plug-in that enables links across CD-ROMs currently supports Windows 95, Windows 98, Windows NT, Windows 2000 and Windows XP. For other users, reference Section 3 in the README.TXT file on how to access article files.)

2. To make navigation and searching easier, we strongly recommend changing several default Acrobat Search Preferences. In the dialog box shown for Acrobat Preferences, (found on the menu

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bar under Edit > Preferences) select “Search” and make the following changes:

A. Under “Include in Query” check “Document Information” so that Title, Author, Keywords, and Subject fields are visible when specifying search criteria. **Note**: If for some reason this preference option is not present on your system, check to see that you have the Search plug-in installed. The Search icon will be present on the Acrobat Toolbar if the function is properly installed. Specifics of the Search function are described later in this section.

B. Under “Results” change “Show First” to 1000. (Type in “1000” in the field provided.) This allows the maximum number of hits to be displayed during a search.

C. Under “Display” change “Next Highlight” using the drop-down list to “No Highlighting”. This is necessary for all searches executed from the Master Index CD-ROM to operate properly.

3. In the “Preferences” window (found on the menu bar under Edit > Preferences) select “Options”. Under “Startup” uncheck “Certified Plug-ins Only” **Note: if this is checked the ICPI**

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Smartlink™ plug-in will not be loaded when Adobe Reader is launched.

4. In the “Preferences” window (found on the menu bar under Edit > Preferences) select “Options”. Under “Miscellaneous” uncheck “Open Cross-Document Links in Same Window” option.

5. If you have the resources, placing the Master Index CD-ROM on a second CD-ROM drive, your local hard drive or on a network will increase the performance of cross-disc linking. If only one CD-ROM drive is available, you will need to eject the Master Index CD-ROM and insert the requested CD-ROM. When you return to the Master Index (generally by using the History button), you will be prompted to reinsert the Master Index CD-ROM. (See README.TXT for more information.)

6. Articles may have text outside normal print-area defaults. We recommend selecting “Shrink to Fit” in the print menu (File > Print) to capture the complete image for your printout. This setting will become your new default.

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Getting Started

ORIENTATION

This electronic guide contains the Master Index for the IEEE Microwave Theory and Technologies Society's complete digital archive from 1953 through 2002. In addition to the Electronic Guide, this CD-ROM contains the full-text index to all articles in the archive's 24 CD-ROMs.

From the Master Index, you will be able to look up articles by Publication, Issue, Paper Title, Author and full-text search. Abstracts for each article are made available for you to browse. By clicking on the title of the abstract, you will be prompted to insert the CD-ROM with the actual article file.

When links to a file on another CD-ROM are encountered, a special plug-in searches all available devices (local and network) for a CD-ROM with the appropriate volume label (e.g. MTT007). If already available, the file is opened. If not, you will be prompted to insert the appropriate CD-ROM.

In many instances, we refer to the "menu bar" and "tool bar", shown here for reference.

menu bar:

tool bar:

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USING BOOKMARKS

In addition to links, you can navigate through the Electronic Guide using Bookmarks. If they are not already visible, click the bookmark tab or press the “Show/Hide Navigation Pane” button on the tool bar. A panel opens on the left side of the screen displaying Bookmarks in a hierarchy. (The bookmark tab may have to be selected.)

Each Bookmark corresponds to a page in the Electronic Guide. Click on the text in a Bookmark to go to that page.

Entries with subordinate Bookmarks show a plus “+” sign. To view subordinate Bookmarks, click on the plus “+” sign. The bookmark will expand and the plus “+” sign will change to a minus “-” sign. Dragging the right margin of the bookmark panel resizes it.

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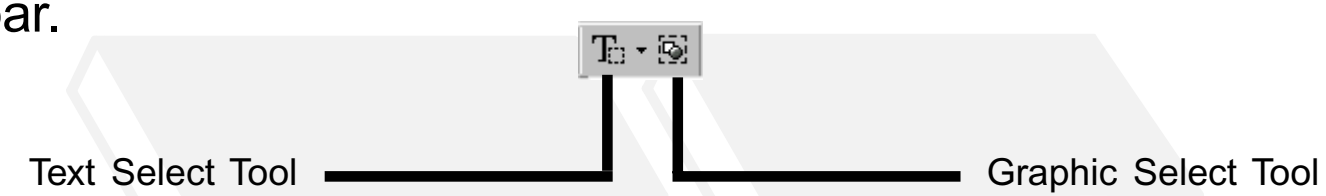
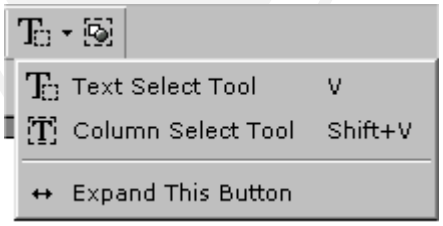
SELECTING TEXT AND GRAPHICS

To select text or graphics, the appropriate select tool must be selected. The select tools share the same space on the tool bar.



To see more text selection tools you must click the arrow to the right of the Text Select Tool. A “flyout” menu will allow you to select the Column Select Tool.



See the Adobe Acrobat Reader 5.0 Guide (Help > Reader Help) for more information on these tools.

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NAVIGATION BUTTONS

Section Map

The current section is shown at the top of each page. The “path” to this section is shown at the right. Clicking these text buttons moves you to the start of that section.

Next Page

Click to advance to the next page in the section.

Previous Page

Click to go back to the previous page in the section.

(The Page Up and Page Down keys perform the same functions as the Next and Previous Page buttons.)

Fast Forward Pages

Click to advance (jump) multiple pages in the section.

Fast Back Pages

Click to go back (jump) multiple pages in the section.

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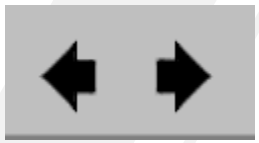
Navigation

- Go to Last Page
- Go Forward One Page
- Go Backward One Page
- Go to First Page



History

- Go to Next View (One Link)
- Go to Previous View (One Link)

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Zoom

Zoom Out
Zoom In
Hand Tool

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Graphic Select Tool
Column Select Tool
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Page View

- Fit Width
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Find/Search

- Next Highlight (Hit)
- Previous Highlight (Hit)
- View Search Results
- Search
- Find

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PERFORMING A “FIND”

Choosing Find (from the Toolbar or Tools > Find) opens a dialog box. Find scans linearly through the currently open Acrobat file from the cursor forward. If the Electronic Guide PDF is open, “Find” will scan the entire Electronic Guide for a match to your text. Type a text string in the field provided, check the appropriate options and press the “Find” button. Reader then highlights the first instance of the text string. To look at the next “hit”, click on the Find icon and select “Find Again” in the Acrobat Find window.

PERFORMING A “SEARCH”

Choosing the Search button or Search menu item (Tools > Search), or selecting the Query item, opens a dialog box from which you can access the more powerful full-text search engine (if you installed Acrobat Reader from this CD-ROM). Its dialog box is shown on the next page.

Typing a term in the text box at the top of the Search dialog box and pressing the “Search” button causes a full-text search of all words in the body of papers in the collection. Entering a term in one or more

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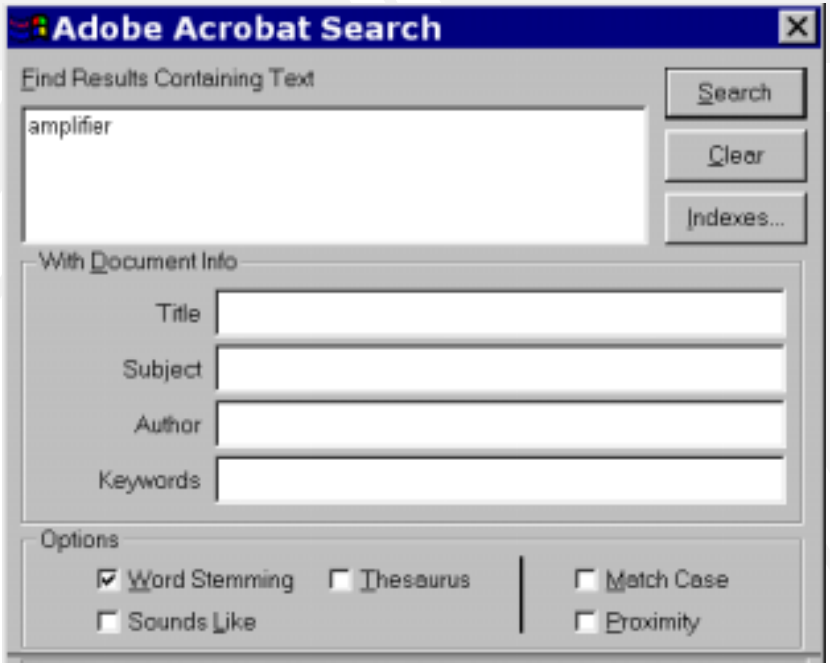
of the fixed fields (Title, Author, Subject* or Keywords) will cause a search for hits in only those fields.

See the Search Online Guide (on Help menu) for more complete instructions on selecting appropriate options, constructing boolean queries, etc.



*Subjects were indexed for years beginning with 1997. The most accurate hits will be for Publications beginning then.

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- Microwave and Wireless Components Letters
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- Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest
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- A Graph of Return Loss Versus Frequency for Quarter-Wavelength Short-Circuited Waveguide Impedance Standards (Correspondence)
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- Propagation and Scattering in Radially Flowing Media
- Exact Solutions of Stepped Impedance Transformers Having Maximally Flat and Chebyshev Characteristics
- On Stored Energy and Bandwidth in TEM-Mode Microwave Networks
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- Computer-Aided Small-Signal Characterization of IMPATT Diodes (Sep. 1969 [T-MTT])
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- A Broad-Band Frequency Translator with 30-dB Suppression of Spurious Sidebands (Correspondence)
- A Laminar Subsidiary-Resonance Limiter (Correspondence)
- A Symmetrically Excited Microwave Rotary Joint (Correspondence)
- Transmission Characteristics of a Reentrant Hybrid Tee (Comments)

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- Array 1: Calculation of the Active Transmit Impedance for a Phased-Array Antenna of Lossless Elements (Computer Program Descriptions)

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- Q-Factor Calculations for Cylindrical Microwave Resonators (Computer Program Descriptions)
- Contributors (Sep. 1970 [T-MTT])
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- Influence of Wall Losses on Energy Flow Center Velocity of Pulses in Waveguides
- Waves and Evanescent Fields in Rectangular Waveguides Filled with a Transversely Inhomogeneous Dielectric
- The Adjustment of the m-Port Single-Junction Circulator
- Measurement of AM Noise in Pulsed Oscillators and Amplifiers
- The Precision Measurement of Noise Temperature of Mismatched Noise Generators
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Nov. 1970 [T-MTT] (Special Issue on Microwave Circuit Aspects of Avalanche-Diode and Transferred Electron Devices)

- Front Cover (Nov. 1970 [T-MTT])
- Table of Contents (Nov. 1970 [T-MTT])
- Editor's Note (Nov. 1970 [T-MTT])
- Introduction (Nov. 1970 [T-MTT])
- Basic Principles and Properties of Avalanche Transit-Time Devices
- Transferred Electron Amplifiers and Oscillators
- Broad-Band Equivalent-Circuit Determination of Gunn Diodes
- Microwave Equivalent-Circuit Parameters of Gunn-Effect-Device Packages
- Frequency-Saturation Effects in Transferred Electron Oscillators
- Circuit Analysis of Waveguide-Cavity Gunn-Effect Oscillator

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- Microwave Circuits for High-Efficiency Operation of Transferred Electron Oscillators
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- Large-Signal Operation of Avalanche-Diode Amplifiers
- Gain-Bandwidth Optimization of Avalanche-Diode Amplifiers
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- Interdigital Capacitors and Their Application to Lumped-Element Microwave Integrated Circuits
- Launching Efficiency of the HE/sub 11/ Surface Wave Mode on a Dielectric Rod
- On the Restricted Validity of Point-Matching Techniques (Dec. 1970 [T-MTT])
- A Short-Slot Waveguide Latching Ferrite Switch (Dec. 1970 [T-MTT])
- Generalized Rational Function Approximation in Finite Intervals Using Zolotarev Functions

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- A Dual-Channel Rotary Joint for High Average Power Operation (Dec. 1970 [T-MTT])
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- Dielectric Resonators as Microstrip-Circuit Elements (Correspondence)
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- Wide-Band X-Band Microstrip Image Rejection Balanced Mixer (Correspondence)
- Contributors (Dec. 1970 [T-MTT])
- Microwave Abstracts (Dec. 1970 [T-MTT])
- Index, IEEE Transactions on Microwave Theory and Techniques, Volume MTT-18, 1970
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- Editor's Note (Feb. 1971 [T-MTT])
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- The Tri-Service Program--A Tribute to George M. Knauf, USAF (MC)
- Interaction of Microwave and Radio Frequency Radiation with Biological Systems
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- Absence of Heart-Rate Effects in Rabbits During Low-Level Microwave Irradiation

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- New Techniques for Implementing Microwave Biological-Exposure Systems
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- Determination and Elimination of Hazardous Microwave Fields Aboard Naval Ships

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- A Method for the Computation of the Characteristic Immittance Matrix of Multiconductor Striplines with Arbitrary Widths
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- Analysis of Microstrip Resonators
- Analysis of Lossy Inhomogeneous Waveguides Using Shooting Methods (Short Papers)

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- Scattering by a Ferrimagnetic Circular Cylinder in a Rectangular Waveguide (Comments)
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- Optically Pumped Submillimeter-Wave Sources
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- Recent Advances in Commercial Fourier Spectrometers for the Submillimeter Wavelength Region
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- Pulsed Double-Drift Silicon IMPATT Diodes and Their Application
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- New Microwave-Frequency Synthesizers that Exhibit Broader Bandwidths and Increased Spectral Purity (Dec. 1974, Part II [T-MTT])
- Calibration Technique for Automated Network Analyzers with Application to Adapter Evaluation
- An Application of the Power Equation Concept and Automation Techniques to Precision Bolometer Unit Calibration (Dec. 1974 [T-MTT])
- A Microwave Dosimetry System for Measured Sampled Integral-Dose Rate (Dec. 1974 [T-MTT])

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- Editorial (Jan. 1975 [T-MTT])
- An Introduction to Integrated Optics
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- GaAs and GaAlAs Devices for Integrated Optics
- Optical Waveguide Modulators
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- Quasi-Guided Modes and Related Radiation Losses in Optical Dielectric Waveguides with External Higher Index Surroundings
- A Method for Measuring the Refractive Index Profile of Thin-Film Waveguides (Letters)

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- Distributed Capacitance of a Thin-Film Electrooptic Light Modulator (Letters)
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- On the Expansion of Axial Field Components in Terms of Normal Modes in Perturbed Waveguides (Letters)
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- On the Nonthermal Microwave Response of Drosophila Melanogaster (Short Papers)

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- Loss Measurements of Nonradiative Dielectric Waveguide (Special Papers)
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- Patent Abstracts (Aug. 1984 [T-MTT])
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- Front Cover (Sep. 1984 [T-MTT])
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- Introduction (Sep. 1984 [T-MTT])
- History of the Administrative Committee of the Microwave Theory and Techniques Society
- The Origin of Waveguides: A Case of Multiple Rediscovery
- Coaxial Transmission Lines, Related Two-Conductor Transmission Lines, Connectors, and Components: A U.S. Historical Perspective
- Microwave Printed Circuits - The Early Years
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- A History of Microwave Filter Research, Design, and Development
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- Solid-State Microwave and Millimeter-Wave Sources Development--A Personal Account
- Microwave Ferrite Devices: The First Ten Years
- The Virtues of Nonlinearity--Detection, Frequency Conversion, Parametric Amplification and Harmonic Generation
- Origins of High-Power Diode Switching
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- 50 Years of Radio Astronomy
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- A Conversation Between Harold Barlow and Alec Cullen, on November 24, 1983
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- Coaxial Transmission Lines, Related Two-Conductor Transmission Lines, Connectors, and Components: A U.S. Historical Perspective (Corrections)
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- 1984 IEEE MTT-S International Microwave Symposium Keynote Address (Dec. 1984 [T-MTT])
- Table of Contents, 1984 MTT Symposium Digest (Dec. 1984 [T-MTT])
- A 26-GHz High-Performance MIC Transmitter/Receiver for Digital Radio Subscriber Systems (Dec. 1984 [T-MTT])
- Analysis and Design of a Single-Resonator GaAs FET Oscillator with Noise Degeneration
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- Analysis of Crosstalk in Very High-Speed LSI/VLSI's Using a Coupled Multiconductor MIS Microstrip Line Model

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- Analysis of Interconnection Delay on Very High-Speed LSI/VLSI Chips Using an MIS Microstrip Line Model
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- Theory and Application of Coupling Between Curved Transmission Lines (Corrections)

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- Coupling of Degenerate Modes on Curved Dielectric Slab Sections and Application to Directional Couplers (Corrections)
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- Table of Contents, 1987 MTT Symposium Digest (Dec. 1987 [T-MTT])
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- Class-B Power MMIC Amplifiers with 70 Percent Power-Added Efficiency
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- Wide-Locking Bandwidth Optically Injection-Locked Oscillators: S-Parameter Design and Modulation Effects
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- Call for Papers - PIERS 1997 (Oct. 1996, Part II [T-MTT])
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- A New Solution for TE Plane-Wave Scattering from a Symmetric Double-Strip Grating Composed of Equal Strips
- A Novel General Approach for the Optimum Design of Microwave and Millimeter Wave Subharmonic Mixers
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- Analysis of an N-Way Radial Cavity Divider with a Coaxial Central Port and Waveguide Output Ports
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- Analytical Dispersion Analysis of Loaded Periodic Circuits Using the Generalized Scattering Matrix
- Dynamic Shape of the Depletion Layer of a Submillimeter-Wave Schottky Varactor
- Order-Recursive Gaussian Elimination (ORGE) and Efficient CAD of Microwave Circuits
- A Coaxial 0.5-18 GHz Near Electric Field Measurement System for Planar Microwave Circuits Using Integrated Probes

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- Numerical Simulation of the Power Density Distribution Generated in a Multimode Cavity by Using the Method of Lines Technique to Solve Directly for the Electric Field
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- An Analytical Model for the Photodetection Mechanisms in High-Electron Mobility Transistors
- Stokes Phenomenon in the Development of Microstrip Green's Function and its Ramifications (Short Papers)
- A Fast Algorithm for Computing Field Radiated by an Insulated Dipole Antenna in Dissipative Medium (Short Papers)
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- The 1996 IEEE MTT-S International Microwave Symposium/Exhibition: "Bridging the Spectrum" (Dec. 1996, Part II [T-MTT])
- 1996 IEEE MTT-S International Microwave Symposium Steering Committee
- 1996 IMS Technical Program (Dec. 1996, Part II [T-MTT])
- Awards (Dec. 1996, Part II [T-MTT])
- Status of InP HEMT Technology for Microwave Receiver Applications (Dec. 1996, Part II [T-MTT])
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- Highly Integrated Three-Dimensional MMIC Single-Chip Receiver and Transmitter (Dec. 1996, Part II [T-MTT])

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- Sixty-GHz-band Ultra-Miniature Monolithic T/R Modules For Multimedia Wireless Communication Systems
- High-Yield Design Technologies for InAlAs/InGaAs/InP-HEMT Analog-Digital ICS
- A High-Q Broad-Band Active Inductor and its Application to a Low-Loss Analog Phase Shifter
- L-band Internally Matched Si-MMIC Front-End
- Integrated Coplanar MM-Wave Amplifier with Gain Control Using a Dual-Gate InP HEMT (Dec. 1996, Part II [T-MTT])
- A Novel Monolithic HEMT LNA Integrating HBT-Tunable Active-Feedback Linearization by Selective MBE
- A 230-Watt S-Band SiGe Heterojunction Bipolar Transistor
- Self-Linearizing Technique for L-Band HBT Power Amplifier: Effect of Source Impedance on Phase Distortion

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- A Novel Active Antenna with Self-Mixing and Wideband Varactor-Tuning Capabilities for Communication and Vehicle Identification Applications
- Multifrequency Microstrip Antennas Using Alumina-Ceramic/Polyimide Multilayer Dielectric Substrate
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- Efficient FDTD/Matrix-Pencil Method for the Full-Wave Scattering Parameter Analysis of Waveguiding Structures
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- EM-ANN Models for Microstrip Vias and Interconnects in Dataset Circuits
- Multiple Arbitrary Shape Via-Hole and Air-Bridge Transitions in Multilayered Structures (Dec. 1996, Part II [T-MTT])
- Accuracy of TLM Solutions of Maxwell's Equations (Dec. 1996, Part II [T-MTT])
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- Simulation of Dispersive Multiconductor Transmission Lines by Pade Approximation via the Lanczos Process

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- CAD-Oriented Fullwave Equivalent Circuit Models for Waveguide Components and Circuits
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- Large-Signal Modeling of Self-Heating, Collector Transit-Time, and RF-Breakdown Effects in Power HBT's
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- Effects of Nonlinear Distortion on CDMA Communication Systems (Dec. 1996, Part II [T-MTT])

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- A Bleustein-Gulyaev-Shimizu Wave Resonator Having Resonances for TV and VCR Traps (Dec. 1996, Part II [T-MTT])
- Index, IEEE [T-MTT] 1996, Volume 44, and MTT-S Sponsored Conferences
- Your One-Stop Sourcebook on Microstrip Antennas and Microwave Systems (Advertisement) (Dec. 1996, Part II [T-MTT])
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- Demonstration of photonically controlled GaAs digital/MMIC for RF optical links
- A time-domain full-wave extraction method of frequency-dependent equivalent circuit parameters of multiconductor interconnection lines
- Reconstruction of nonuniform transmission lines from time-domain reflectometry

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- Large-signal microwave characterization of AlGaAs/GaAs HBT's based on a physics-based electrothermal model
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- A Millimeter-Wave Band MMIC Dual-Quadrature Up-Converter Using Multilayer Directional Couplers
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- Duality transformation for nonreciprocal and nonsymmetric transmission lines
- A new model of generalized invertor and its applications
- A design procedure for monolithic matrix amplifier
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- Table of Contents (Feb. 1997 [T-MTT])
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- Broad-band microwave characterization of bilayered materials using a coaxial discontinuity with applications for thin conductive films for microelectronics and material in air-tight cell
- Propagation characteristics of a heaviside absorbing layer for TLM
- Hybrid-mode computation of propagation and attenuation characteristics of parallel coupled microstrips with finite metallization thickness
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- Determination of the roots of the characteristic equation for corrugated and dielectric loaded circular waveguides
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- A new calculation approach of transistor noise parameters as a function of gatewidth and bias current
- Eigenvalue approach to the efficient determination of the hybrid and complex spectrum of inhomogeneous, closed waveguide
- Four-port scattering matrix for dual-polarized wave transmission and reflection network
- A new approach to estimate complex permittivity of dielectric materials at microwave frequencies using waveguide measurements

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- A microwave model for high electron mobility transistors
- Characteristics of guided and leaky waves on multilayer thin-film structures with planar material gratings

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- Analysis of general lossy inhomogeneous and anisotropic waveguides by the finite-element method (FEM) using edge elements
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- The Eigenfunction Expansion of Dyadic Green's Functions for Chirowaveguides (Corrections)

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- Phase noise in coupled oscillators: theory and experiment
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- A high-performance W-band uniplanar subharmonic mixer
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- An improved sliding-load calibration procedure using a semiparametric circle-fitting procedure
- Mode-matching CAD of rectangular or circular multiaperture narrow-wall couplers
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- Nonlinear time-domain analysis of injection-locked microwave MESFET oscillators

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- A closed-form CAD-oriented model for the high-frequency conductor attenuation of symmetrical coupled coplanar waveguides
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- Geometrical structures and fundamental characteristics of microwave stepped-impedance resonators
- Theory of distributed mixing and amplification in a superconducting quasi-particle nonlinear transmission line
- Multitone power and intermodulation load-pull characterization of microwave transistors suitable for linear SSPA's design
- A capacitively loaded half-wavelength tapped-stub resonator
- 3-D FEM/BEM-hybrid approach based on a general formulation of Huygens' principle for planar layered media

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- Fast frequency sweep technique for the efficient analysis of dielectric waveguides
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- Effect of conductor backing on the line-to-line coupling between parallel coplanar lines
- Harmonic and two-tone intermodulation distortion analyses of the inverted InGa/InAlAs/InP HBT

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- Efficient MPIE approach for the analysis of three-dimensional microstrip structures in layered media
- Dielectric and geometric dependence of electric field and power distribution in a waveguide heterogeneously filled with lossy dielectrics
- Reflection analysis of FDTD boundary conditions. I. Time-space absorbing boundaries
- Reflection analysis of FDTD boundary conditions. II. Berenger's PML absorbing layers
- An efficient algorithm for the parameter extraction of 3-D interconnect structures in the VLSI circuits: domain-decomposition method
- New consistent model for ferrite permeability tensor with arbitrary magnetization state

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- A monopole-probe-based quasi-optical amplifier array
- A novel active inductor and its application to inductance-controlled oscillator
- Hilbert-transform-derived relative group delay
- Hairpin-comb filters for HTS and other narrow-band applications
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- Dual-mode conductor-loaded cavity filters
- Fast and accurate extraction of capacitance parameters for the Statz MESFET model
- A novel ultrawideband microwave differential phase shifter
- A simple and accurate MESFET channel-current model including bias-dependent dispersion and thermal phenomena

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- Two-port scattering at an elliptic-waveguide junction
- Numerical implementations of PML boundary conditions in the TLM-based SCN FDTD grid
- Hybrid FDTD large-signal modeling of three-terminal active devices
- Resonance in a cylindrical-triangular microstrip structure

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Papers by Issue

Aug. 1997, Part II [T-MTT]

- Table of Contents (Aug. 1997, Part II [T-MTT])
- Inside Cover (Aug. 1997, Part II [T-MTT])
- Introduction to the Special Issue on Microwave and Millimeter-Wave Photonics
- In Memoriam, Brian Hendrickson
- Semiconductor laser sources for externally modulated microwave analog links
- Dynamic response of long optical-cavity laser diode for Ka-band communication satellites
- Optical generation of a megahertz-linewidth microwave signal using semiconductor lasers and a discriminator-aided phase-locked loop
- Highly tunable fiber-coupled photomixers with coherent terahertz output power
- Traveling-wave photodetector theory

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Papers by Issue

- High-power high-speed photodetectors-design, analysis, and experimental demonstration
- Theoretical study of p-i-n photodetectors' power limitations from 2.5 to 60 GHz
- Diluted- and distributed-absorption microwave waveguide photodiodes for high efficiency and high power
- Principles and performance of traveling-wave photodetector arrays
- Quasi-static analysis of an optically illuminated directional coupler
- On the improvement of the performance of the optically controlled microwave switch
- Tunable microwave load based on biased photoinduced plasma in silicon
- Photoresponse of microwave transistors to high-frequency modulated lightwave carrier signal
- Techniques and performance of intensity-modulation direct-detection analog optical links

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Papers by Issue

- Optimizing the ultrawide-band photonic link
- Dynamic range requirements for microcellular personal communication systems using analog fiber-optic links
- Impact of interferometric noise on the remote delivery of optically generated millimeter-wave signals
- Assessment of the nonlinearity tolerance of different modulation schemes for millimeter-wave fiber-radio systems using MZ modulators
- Overcoming chromatic-dispersion effects in fiber-wireless systems incorporating external modulators
- Novel techniques for high-capacity 60-GHz fiber-radio transmission systems
- A mobile broad-band communication system based on mode-locked lasers
- 37-GHz fiber-wireless system for distribution of broad-band signals
- Broad-band external modulation fiber-optic links for antenna-remoting applications

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- Fiber-optic links supporting baseband data and subcarrier-multiplexed control channels and the impact of MMIC photonic/microwave interfaces
- High-speed generalized distributed-amplifier-based transversal-filter topology for optical communication systems
- Synthesis of all-optical microwave filters using Mach-Zehnder lattices
- Photonic signal processing of microwave signals using an active-fiber Bragg-grating-pair structure
- Optical architectures for programmable filtering and correlation of microwave signals
- All-optical RF filter using amplitude inversion in a semiconductor optical amplifier
- Photonic mixers and image-rejection mixers for optical SCM systems
- Microwave-frequency conversion methods by optical interferometer and photodiode

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- Active high-power RF pulse compression using optically switched resonant delay lines
- Simulation and implementation of lightwave component characterization using a bilateral electro-optic network
- An optically controlled MMW beam-steering antenna based on a novel architecture
- Experimental demonstration of optical guided-wave Butler matrices
- Analog vector modulation-based widely tunable frequency photonic beamformer for phased-array antennas
- Optical-fiber grating-based beamforming network for microwave phased arrays
- Influence of crosstalk in switchable optical time-delay networks for microwave array antennas
- Fiber-optic true time steering of an ultrawide-band receive array

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Papers by Issue

- Fiber Bragg-grating true time-delay systems: discrete-grating array 3-b delay lines and chirped-grating 6-b delay lines
- Continuously variable true time-delay optical feeder for phased-array antenna employing chirped fiber grating

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Papers by Issue

Sep. 1997 [T-MTT]

- Table of Contents (Sep. 1997 [T-MTT])
- Inside Cover (Sep. 1997 [T-MTT])
- Lumped- and distributed-element equivalent circuits for some symmetrical multiport signal-separation structures
- Application of a point-matching MoM reduced scheme to scattering from finite cylinders
- Full-wave segmentation analysis of arbitrarily shaped planar circuit
- A realistic large-signal MESFET model for SPICE (Sep. 1997 [T-MTT])
- Noise and power optimization of a MMIC quasi-circulator
- Injection-locked oscillator chain: a possible solution to millimeter-wave MMIC synthesizers (Sep. 1997 [T-MTT])
- Nonresonant perturbation measurements on dispersion and interaction impedance characteristics of helical slow-wave structures

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Papers by Issue

- A novel structure of tightly coupled lines for MMIC/MHMIC couplers and phase shifters
- Resonant disk turnstile
- Fast and accurate analysis of waveguide filters by the coupled-integral-equations technique
- Quick quasi-TEM analysis of multiconductor transmission lines with rectangular cross section
- A new simultaneous noise and input power matching technique for monolithic LNA's using cascode feedback
- A large-signal characterization of an HEMT using a multilayered neural network
- Novel microstrip-line directional filters
- Radiation properties of a planar dielectric waveguide loaded with conducting-strip diffraction grating
- The influence of ground-plane width on the ohmic losses of coplanar waveguides with finite lateral ground planes
- Do covariant projection elements really satisfy the inclusion condition?

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- FDTD analysis of dielectric resonators with curved surfaces
- A pole-free modal field-matching technique for eigenvalue problems in electromagnetics
- An application of FDTD in studying the end effects of slotline and coplanar waveguide with anisotropic substrates

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Oct. 1997, Part I [T-MTT]

- Table of Contents (Oct. 1997, Part I [T-MTT])
- Inside Cover (Oct. 1997, Part I [T-MTT])
- Editorial: New Editor (Oct. 1997, Part I [T-MTT])
- Systematic elaboration of trial function bases for the study of planar structures
- Mode distinction and radiation-efficiency analysis of planar leaky-wave line source
- LIGA micromachined planar transmission lines and filters
- Study of the ridge-loaded helical-groove slow-wave structure
- Device and circuit-level modeling using neural networks with faster training based on network sparsity
- A 1.4-2.7-GHz analog MMIC vector modulator for a crossbar beamforming network
- Efficient hybrid TLM/mode-matching analysis of packaged components

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- Coplanar stripline components for high-frequency applications
- Complex dielectric measurements and analysis of brain tissues in the radio and microwave frequencies
- Integrated active antenna with full duplex operation
- Absorbing-boundary conditions using perfectly matched-layer (PML) technique for three-dimensional TLM simulations
- A method-of-moments study of strip dipole antennas in rectangular waveguide
- Resonant frequencies and field distributions for the shielded uniaxially anisotropic dielectric resonator by the FD-SIC method
- Analysis of the suspended strip in elliptical cross section by separation of variables
- Optimum termination networks for tightly coupled microstrip lines under random and deterministic excitations

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- An FD-FD formulation for the analysis of the optical axis misalignment effect on propagation characteristics of anisotropic dielectric waveguides
- Scattering by an infinite elliptic dielectric cylinder coating eccentrically a circular metallic or dielectric cylinder
- Enhancements of the spectral-domain approach for analysis of microstrip Y-junction
- Analyticity of electromagnetic fields in regions characterized by analytic dielectric parameters and analytic sources
- Effect of finite metallization and inhomogeneous dopings on slow-wave-mode propagation
- Optical Generation of a Megahertz-Linewidth Microwave Signal Using Semiconductor Lasers and a Discriminator-Aided Phase-Locked Loop (Corrections)
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Oct. 1997, Part II [T-MTT] (Special Issue on Interconnects and Packaging)

- Table of Contents (Oct. 1997, Part II [T-MTT])
- Inside Cover (Oct. 1997, Part II [T-MTT])
- Guest Editorial (Oct. 1997, Part I [T-MTT])
- MCM packaging for present- and next-generation high clock-rate digital- and mixed-signal electronic systems: areas for development
- When are transmission-line effects important for on-chip interconnections?
- Application of system-level EM modeling to high-speed digital IC packages and PCBs
- An all-purpose transmission-line model for interconnect simulation in SPICE
- The finite-element method for modeling circuits and interconnects for electronic packaging

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- Rigorous and simplified models for the capacitance of a circularly symmetric via
- Low-profile enhanced-bandwidth PIFA antennas for wireless communications packaging
- Hybrid electromagnetic modeling of noise interactions in packaged electronics based on the partial-element equivalent-circuit formulation
- High-frequency circuit modeling of large pin count packages
- Time-domain characterization of packaging effects via segmentation technique
- An FDTD-Touchstone hybrid technique for equivalent circuit modeling of SOP electronic packages
- Modeling millimeter-wave IC behavior for flipped-chip mounting schemes
- Microwave-circuit modeling of high lead-count plastic packages
- Automatic netlist extraction for measurement-based characterization of off-chip interconnect

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- Accurate frequency-domain modeling and efficient circuit simulation of high-speed packaging interconnects
- Development of microwave package models utilizing on-wafer characterization techniques
- Determination of complex permittivity of low-loss dielectrics
- Spiral inductors and transmission lines in silicon technology using copper-damascene interconnects and low-loss substrates
- An integrated CMOS distributed amplifier utilizing packaging inductance
- A new approach for the experimental circuit modeling of coupled interconnection structures based on causality
- Coax via-A technique to reduce crosstalk and enhance impedance match at vias in high-frequency multilayer packages verified by FDTD and MoM modeling

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Nov. 1997 [T-MTT]

- Table of Contents (Nov. 1997 [T-MTT])
- Inside Cover (Nov. 1997 [T-MTT])
- Evaluation of MESFET nonlinear intermodulation distortion reduction by channel-doping control
- A fast spatial-domain method for the suppression of excitation-induced spurious modes in SCN TLM
- Class-F power amplifiers with maximally flat waveforms
- Superconducting microstrip resonator with yttrium iron garnet single crystals
- Transmission-line analysis of a capacitively coupled microstrip-ring resonator
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- Phase noise in externally injection-locked oscillator arrays
- Design of waveguide-to-orotron-resonator transition with modified Bethe theory

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- Modeling of surface hairline-crack detection in metals under coatings using an open-ended rectangular waveguide
- The dependence of electromagnetic energy absorption upon human-head modeling at 1800 MHz
- Resonant Disk Turnstile (Corrections)

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Dec. 1997, Part I [T-MTT]

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- Intermodulation mechanism and linearization of AlGaAs/GaAs HBTs
- Thin-sample measurements and error analysis of high-temperature coaxial dielectric probes
- A novel approach for determining the GaAs MESFET small-signal equivalent-circuit elements
- Study of the influence of grounding for microstrip resonators
- Transitional combline/evanescent-mode microwave filters
- Maximally flat quarter-wavelength-coupled transmission-line filters using Q distribution
- Characterization of unbounded multiport microstrip passive circuits using an explicit network-based method of moments
- A new edge element for the modeling of field singularities in transmission lines and waveguides

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- Analysis of coplanar-waveguide discontinuities with finite-metallization thickness and nonrectangular edge profile
- A modified Lanczos algorithm for the computation of transient electromagnetic wavefields
- Uniplanar broad-band push-pull FET amplifiers
- The method of lines for the hybrid analysis of multilayered cylindrical resonator structures
- Nonradiating sources in time-domain transmission-line theory

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Dec. 1997, Part II [T-MTT] (1997 Symposium Issue)

- Front Cover (Dec. 1997, Part II [T-MTT])
- Table of Contents (Dec. 1997, Part II [T-MTT])
- Inside Cover (Dec. 1997, Part II [T-MTT])
- Guest Editors' Overview (Dec. 1997, Part II [T-MTT])
- The 1997 IEEE MTT-S International Microwave Symposium/Microwave Week: "High Frequencies in High Places"
- 1997 IMS Technical Program (Overview)
- 1997 MTT-S Awards (Overview)
- Optimal control of intermodulation distortion in hybrid fiber-coaxial CATV systems
- Wide-band millimeter-wave/optical-network applications in Japan
- Global modeling of millimeter-wave circuits: electromagnetic simulation of amplifiers

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- A hybrid full-wave analysis of via-hole grounds using finite-difference and finite-element time-domain methods
- 28-V low thermal-impedance HBT with 20-W CW output power
- A double lightly doped drain (D-LDD) structure H-MESFET for MMIC applications
- Uniplanar hybrid couplers using asymmetrical coplanar striplines
- Arbitrary termination impedances, arbitrary power division, and small-sized ring hybrids (Dec. 1997, Part II [T-MTT])
- A scalable general-purpose model for microwave FETs including DC/AC dispersion effects
- A 60-GHz-band monolithic HJFET LNA incorporating a diode-regulated self-bias circuit
- 60-GHz flip-chip assembled MIC design considering chip-substrate effect
- The work of Jagadis Chandra Bose: 100 years of millimeter-wave research

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- Optical repeater circuit design based on InAlAs/InGaAs HEMT digital IC technology
- Chip design for monobit receiver
- The nature of the spectral gap for leaky waves on a periodic strip-grating structure
- Line-loss and size reduction techniques for millimeter-wave RF front-end boards by using a polyimide/alumina-ceramic multilayer configuration
- Millimeter-wave holographic power splitting/combining
- Megalithic microwave signal processing for phased-array beamforming and steering
- Knowledge-based neural models for microwave design
- A 2-GHz subharmonic sampler for signal downconversion
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- Rigorous and efficient fabrication-oriented CAD and optimization of complex waveguide networks (Dec. 1997, Part II [T-MTT])
- Wide-band SSB subharmonically pumped mixer MMIC (Dec. 1997, Part II [T-MTT])
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- Elliptical cavity resonators for dual-mode narrow-band filters
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- A (historical) review of the six-port measurement technique
- A 94-GHz 0.35-W power amplifier module
- A 6-W Ka-band power module using MMIC power amplifiers
- A microwave miniaturized linearizer using a parallel diode with a bias feed resistance

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- Determination of wave noise sources using spectral parametric modeling (Dec. 1997, Part II [T-MTT])
- Design of planar circuit structures with an efficient magnetostatic-field solver
- Modeling of conductor loss in coplanar circuit elements by the method of lines
- Modeling of conductor-loaded resonators and filters in rectangular enclosures
- Design of SAW expander and compressor on LiTaO/sub 3/ for a TCDMA spread spectrum system

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- HBT high-frequency modeling and integrated parameter extraction
- Nonlinear modeling of SiGe HBTs up to 50 GHz
- Transfer characteristic of IM/sub 3/ relative phase for a GaAs FET amplifier (Dec. 1997, Part II [T-MTT])
- Design and optimization of CPW circuits using EM-ANN models for CPW components
- Three-dimensional masterslice MMIC on Si substrate (Dec. 1997, Part II [T-MTT])
- Highly integrated RF-IC's for GSM and DECT systems-A status review
- Embedded transmission-Line (ETL) MMIC for low-cost high-density wireless communication applications
- High-frequency low-power ICs in a scaled submicrometer HBT technology
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- An original approach to mode converter optimum design
- CAD applying the finite-element method for dielectric-resonator filters
- Analytically determined quasi-static parameters of shielded or open multiconductor microstrip lines
- An iterative measured equation technique for electromagnetic problems
- Near-field microwave imaging of biologically-based materials using a monopole transceiver system
- Efficient electromagnetic analysis of a doubly infinite array of rectangular apertures
- Image theory for reflected TE/TM wave in waveguide
- Split frequencies in planar axisymmetric gyroelectric resonators

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- An automated system for measuring power devices in Ka-band
- Shifted-frequency internal equivalence
- Analyzing electromagnetic structures with curved boundaries on Cartesian FDTD meshes
- Multimode parameter extraction for multiconductor transmission lines via single-pass FDTD and signal-processing techniques
- Full multimodal analysis of an open rectangular groove waveguide
- Multiwavelength optically controlled phased-array antennas
- Design of tolerance-corrected filters employing half-cylinder posts
- Cross-coupled microstrip hairpin-resonator filters

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- Comparison of optical processing techniques for optical microwave signal generation
- A 850-GHz waveguide receiver employing a niobium SIS junction fabricated on a 1-/spl mu/m Si/sub 3/N/sub 4/ membrane
- A model for discretization error in electromagnetic analysis of capacitors
- Analysis of ferrite circulators by 2-D finite-element and recursive Green's function techniques
- Two-dimensional singular vector elements for finite-element analysis

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- A simplified formulation to analyze inhomogeneous waveguides with lossy chiral media using the finite-element method
- Synthesis of configuration of uniformly radiating longitudinal slots in the sections of nonregular rectangular waveguides
- Mode-matching analysis of circular-ridged waveguide discontinuities
- Simple determination of all capacitances for a set of parallel microstrip lines
- Comparison between theoretical and measured microstrip gap parameters involving anisotropic substrates
- Efficient Mpie Approach for the Analysis of Three-dimensional Microstrip Structures in Layered Media (Correction)
- A High-accuracy Realization of the Yee Algorithm Using Non-standard Finite Differences (Correction)

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- Guest Editor's Overview (Mar. 1998 [T-MTT])
- Multilayer analysis of anisotropic heat flux in vertical cavity-surface emitting lasers with quarter-wave semiconducting mirrors
- Coupled-mode analysis of highly asymmetric directional couplers with periodic perturbation
- New method of computation of electrical Y-matrix for arbitrarily connected multielement SAW devices
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- Design of broad-band matching network with lossy junctions using the real-frequency technique

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- Computer-aided design of reflector antennas: The Green Bank Radio Telescope
- Recirculating loop for experimental evaluation of EDFA saturated regime effects on optical communication systems
- A time-frequency analysis method for radar scattering
- Experimental study of large rectenna array for microwave energy transmission
- Numerical analysis of the propagation characteristics of multiangle multislot coaxial cable using moment method
- A new iterative diakoptics-based multilevel moments method for planar circuits
- Small-signal modeling of HBTs using a hybrid optimization/statistical technique
- Twofold Mur's first-order ABC in the FDTD method
- Solution of the general Helmholtz equation in homogeneously filled waveguides using a static Green's function

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Apr. 1998 [T-MTT]

- Table of Contents (Apr. 1998 [T-MTT])
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- Optical microwave generation and transmission experiments in the 12- and 60-GHz region for wireless communications
- Optimum design of multihole directional couplers with arbitrary aperture spacing
- A unified approach to the design, measurement, and tuning of coupled-resonator filters
- Systematic evaluation and analysis for 60-GHz dielectric resonators coupled to a microstrip line on a GaAs substrate
- Implicit 3-D dyadic Green's function using self-adjoint operators for inhomogeneous planar ferrite circulator with vertically layered external material employing mode-matching

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- Upper cutoff frequency of the bound wave and new leaky wave on the slotline
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- Thin-stratified medium fast-multipole algorithm for solving microstrip structures
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- A contour-based approach to the multimode network representation of waveguide transitions
- Time-domain analysis of periodic structures at oblique incidence: orthogonal and nonorthogonal FDTD implementations
- Electrostatic potential due to a potential drop across a slit
- A numerically efficient technique for the analysis of slots in multilayer media

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May 1998, Part I [T-MTT]

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- Inside Cover (May 1998, Part I [T-MTT])
- MTT-S Transactions and Letters On-Line (May 1998, Part I [T-MTT])
- Fabrication of very weakly and weakly magnetized microstrip circulators
- Mode coupling and leakage effects in finite-size printed interconnects
- Multifunctional fiber-optic microwave links based on remote heterodyne detection
- Empirical model of the microwave properties of high-temperature superconductors
- Analysis of ridged circular waveguides by the coupled-integral-equations technique
- Synchronization analysis of autonomous microwave circuits using new global-stability analysis tools

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- High-Q capacitors implemented in a CMOS process for low-power wireless applications
- General constraints on the propagation of complex waves in closed lossless isotropic waveguides
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- Power loss for multimode waveguides and its application to beam-waveguide system
- Analysis and application of a two-port aperture-coupled microstrip antenna
- Multimode TRL. A new concept in microwave measurements: theory and experimental verification
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- Efficient circuit simulation of nonuniform transmission lines
- Micromachined thermocouple microwave detector by commercial CMOS fabrication

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- Simple and efficient computation of electromagnetic fields in arbitrarily shaped inhomogeneous dielectric bodies using transpose-free QMR and FFT
- Two-dimensional wavelet-analysis of a microstrip open
- The generalized TLM-based FDTD modeling of frequency-dependent and anisotropic media
- Study of whispering gallery modes in double disk sapphire resonators (Comments)

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May 1998, Part II [T-MTT] (Special Issue on Microwave Circuits on Silicon Substrates)

- Table of Contents (May 1998, Part II [T-MTT])
- Inside Cover (May 1998, Part II [T-MTT])
- Introduction To The Special Issue On Microwave Circuits On Silicon Substrates
- SiGe HBT technology: a new contender for Si-based RF and microwave circuit applications
- Si and SiGe millimeter-wave integrated circuits
- A nonlinear microwave MOSFET model for SPICE simulators
- Characteristics of deep-submicrometer MOSFET and its empirical nonlinear RF model
- Transmission lines and passive elements for multilayer coplanar circuits on silicon
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- Characterization of broad-band transmission for coplanar waveguides on CMOS silicon substrates
- Microwave PtSi-Si Schottky-barrier-detector diode fabrication using an implanted active layer on high-resistivity silicon substrate
- Low-frequency noise properties of SiGe HBT's and application to ultra-low phase-noise oscillators
- Base-profile optimization for minimum noise figure in advanced UHV/CVD SiGe HBT's
- RFIC's for mobile communication systems using SiGe bipolar technology
- SIMMWIC rectennas on high-resistivity silicon and CMOS compatibility
- Three-dimensional silicon MMIC's operating up to K-band
- X- and Ku-band amplifiers based on Si/SiGe HBT's and micromachined lumped components
- Design and realization of a millimeter-wave Si/SiGe HBT frequency multiplier

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- Multifunctional radar sensor for automotive application
- Coplanar passive elements on Si substrate for frequencies up to 110 GHz
- Investigation of microstrip and coplanar transmission lines on lossy silicon substrates without backside metallization
- Circularly polarized millimeter-wave rectenna on silicon substrate
- Reduction of leakage currents in silicon mesa devices

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- Commercial satellite applications for heterojunction microelectronics technology
- Two-terminal millimeter-wave sources
- Emerging trends in millimeter-wave CAD
- GaN microwave electronics
- Si-micromachined coplanar waveguides for use in high-frequency circuits
- Stability of grid amplifiers
- TM surface-wave power combining by a planar active-lens amplifier
- Spatial power combining for two-dimensional structures

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- Novel single-layer waveguides for high-efficiency millimeter-wave arrays
- Slot-array antennas fed by coplanar waveguide for millimeter-wave radiation
- High-speed ASK transceiver based on the NRD-guide technology at 60-GHz band
- Millimeter-wave-band amplifier and mixer MMICs using a broad-band 45/spl deg/ power divider/combiner
- A novel FET model including an illumination intensity parameter for simulation of optically controlled millimeter-wave oscillators
- A high-gain 50-GHz-band monolithic balanced gate mixer with an external IF balun
- Application of microwaves and millimeter waves for the characterization of teeth for dental diagnosis and treatment
- Monolithic rat-race mixers for millimeter waves
- A switchable multi-sector antenna for indoor wireless LAN systems in the 60-GHz band

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- An eight-device extended-resonance power-combining amplifier
- Power dependence of HTS disk-resonator quality factor
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- An efficient and accurate technique for the incident-wave excitations in the FDTD method
- Distribution of current induced on metal-strip gratings by plane wave

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- Table of Contents (Jul. 1998 [T-MTT])
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- Information for Authors (Jul. 1998 [T-MTT])
- Wave penetration through slits on stacked thick plates
- Measuring the carrier frequency of single short-duration MW radio-wave pulses
- Monolithic packaging concepts for high isolation in circuits and antennas
- Miniature electric near-field probes for measuring 3-D fields in planar microwave circuits
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- An efficient energetic variational principle for modeling one-port lossy gyrotropic YIG straight-edge resonators
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- Analysis of mode coupling on guided-wave structures using Morse critical points
- Transfer matrix function (TMF) for wave propagation in dielectric waveguides with arbitrary transverse profiles
- FDTD treatment of partially magnetized ferrites with a new permeability tensor model
- A Galerkin moment method for the analysis of an insulated antenna in a dissipative dielectric medium

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- Scattering at a nonchiral-chiral interface in a coaxial waveguide
- An integrated Doppler-radar transceiver front end using two FET active antennas
- 60-GHz monolithic down- and up-converters utilizing a source-injection concept
- Physical scaling rules for AlGaAs/GaAs power HBTs based on a small-signal equivalent circuit
- Calibration and verification of the pure-mode vector network analyzer
- Discussion on spikes and plateaus in pulse distortion shape along exponential microstrip taper
- A sub-nanosecond resonant-type monolithic T/R switch for millimeter-wave systems applications
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- SLIM: a slender technique for unbounded-field problems
- Using selective asymptotics to accelerate dispersion analysis of microstrip lines

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- A wide-band multiport planar power-divider design using matched sectorial components in radial arrangement
- Generation of nonminimum phase from amplitude-only data
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- A new technique for the stable incorporation of static field solutions in the FDTD method for the analysis of thin wires and narrow strips

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- Transient analysis of microwave active circuits based on time-domain characteristic models
- Optically induced measurement anomalies with voltage-tunable analog-control MMIC's
- Subspace iteration search method for generalized eigenvalue problems with sparse complex unsymmetric matrices in finite-element analysis of waveguides
- Resonant frequency and quality factors of a silver-coated /spl lambda//4 dielectric waveguide resonator
- Analytical evaluation of the asymptotic impedance matrix of asymmetric gap discontinuities
- Efficient time-domain and frequency-domain finite-element solution of Maxwell's equations using spectral Lanczos decomposition method
- Study of the dispersion characteristics of planar chiral lines
- On the computation of the complete spectral Green's dyadic for layered bianisotropic structures

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Papers by Issue

- An investigation of the high-frequency limit of a miniaturized commercial voltage-controlled oscillator used in 900-MHz-band mobile-communication handset
- A new approach to nonlinear analysis of noise behavior of synchronized oscillators and analog-frequency dividers
- Static analysis of arbitrarily shaped conducting and dielectric structures
- Analysis of a slot-coupled T-junction between circular-to-rectangular waveguide
- Thick eccentric circular iris in circular waveguide
- Development of an improved two-dimensional finite-element code for cylindrically symmetric eigenmodes
- A new dispersion model for microstrip line
- New empirical unified dispersion model for shielded-, suspended-, and composite-substrate microstrip line for microwave and mm-wave applications
- A total-variation-diminishing finite-difference scheme for the transient response of a lossless transmission line

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Papers by Issue

Sep. 1998 [T-MTT]

- Table of Contents (Sep. 1998 [T-MTT])
- Inside Cover (Sep. 1998 [T-MTT])
- Multitone characterization and design of FET resistive mixers based on combined active source-pull/load-pull techniques
- Over-60-GHz design technology for an SCFL dynamic frequency divider using InP-based HEMTs
- Two-port noise and impedance measurements for two-terminal devices with a resonant tunneling diode example
- Gyrotron coaxial cylindrical resonators with corrugated inner conductor: Theory and experiment
- A new extrinsic equivalent circuit of HEMT's including noise for millimeter-wave circuit design
- A 44-GHz monolithic waveguide plane-wave amplifier with improved unit cell design [using pHEMTs]

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Papers by Issue

- A new extraction method to determine bias-dependent source series resistance in GaAs FET's
- The transition from the d- to s-state due to thermal fluctuation for high-T/sub c/ superconductors as an evidence from the microwave penetration-depth measurement
- Cryogenic millimeter-wave ring filter for space application
- Full-wave analysis of a nonradiative dielectric waveguide with a pseudochiral /spl Omega/-slab
- A class of novel uniplanar series resonators and their implementation in original applications
- S-domain methods for simultaneous time and frequency characterization of electromagnetic devices
- Fast full-wave analysis of planar microstrip circuit elements in stratified media
- Correction procedures for the numerical parasitic elements associated with lumped elements in global electromagnetic simulators

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Papers by Issue

- Dielectric constant measurements of finite-size sheet at microwave frequencies by pseudo-Brewster's angle method
- High-Q radio-frequency structures using one-dimensionally periodic metallic films
- Math methods in transistor modeling: Condition numbers for parameter extraction
- New tunable phase shifters using perturbed dielectric image lines (Sep. 1998 [T-MTT])
- A new technique for in-fixture calibration using standards of constant length
- Intermodulation analysis of the collector-up InGaAs/InAlAs/InP HBT using Volterra series
- Wide-band 2N-port S-parameter extraction from N-port data
- Characteristic impedance of microshield lines with arbitrary shield cross section
- Cutoff frequencies of an asymmetrically loaded cylindrical waveguide

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Papers by Issue

- 3-D FEM/BEM-hybrid modeling of surface mounted devices within planar circuits
- TM scattering from hollow and dielectric-filled semielliptic channels with arbitrary eccentricity in a perfectly conducting plane
- Efficient parameter computation of 2-D multiconductor interconnection lines in layered media by convergence acceleration of dielectric Green's function via Pade approximation
- A note on the application of edge-elements for modeling three-dimensional inhomogeneously-filled cavities (Comments and Extensions)
- Transitional combline/evanescent-mode microwave filters (Comments and Authors' Reply)

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Oct. 1998, Part I [T-MTT]

- Table of Contents (Oct. 1998, Part I [T-MTT])
- Inside Cover (Oct. 1998, Part I [T-MTT])
- Uniqueness of the solution of electromagnetic boundary-value problems in the presence of lossy and piecewise homogeneous lossless dielectrics
- Numerical simulation of an ion-implanted GaAs OPFET
- Structural determination of multilayered large-signal neural-network HEMT model
- Monte Carlo-based harmonic-balance technique for the simulation of high-frequency TED oscillators
- 94-GHz pulsed silicon IMPATT oscillator modeling
- Switched-mode high-efficiency microwave power amplifiers in a free-space power-combiner array
- Generalized analysis for a class of linear interferometric networks. Part I. Analysis

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- Generalized analysis for a class of linear interferometric networks. Part II. Simulations
- Broad-band (/spl ges/20 GHz) laser-diode-based optoelectronic microwave phase shifter
- A semianalytical parameter-extraction procedure for HBT equivalent circuit
- Modeling the substrate effect in interconnect line characteristics of high-speed VLSI circuits
- Asymmetrical Gauss-Hermite beam-mode analysis of the hexagonal horn
- FDTD characterization of waveguide-probe structures
- Coupling of a planar waveguide and a dielectric disk [laser resonator]
- Time-domain analysis of TM scattering from conducting cylinders using a hybrid method
- Microwave characterization of 2-D random materials: numerical simulations and experiments

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- An improved network modeling of slot-coupled microstrip lines
- Reverse modeling of microwave circuits with bidirectional neural network models
- Using the binomial transformer to approximate the Q distribution for maximally flat quarter-wavelength-coupled filters
- Circuit theory for spatially distributed microwave circuits
- Computation of resonant frequencies of cylindrical ferrite resonators using GIBCs
- Analysis of propagation characteristics and field images for printed transmission lines on anisotropic substrates using a 2-D-FDTD method
- Generalized-material-independent PML absorbers used for the FDTD simulation of electromagnetic waves in 3-D arbitrary anisotropic dielectric and magnetic media
- Accurate analysis of periodic structures with an additional symmetry in the unit cell from classical matrix eigenvalues

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- Numerical computation of the EM coupling between a circular loop antenna and a full-scale human-body model
- New tunable phase shifters using perturbed dielectric image lines (Oct. 1998, Part I [T-MTT])

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Oct. 1998, Part II [T-MTT] (Special Issue on New Developments in the Design of Microwave and Millimeter-Wave Oscillators)

- Table of Contents (Oct. 1998, Part II [T-MTT])
- Inside Cover (Oct. 1998, Part II [T-MTT])
- Editorial (Oct. 1998, Part II [T-MTT])
- Ka-band and MMIC pHEMT-based VCO's with low phase-noise properties
- Applications of interferometric signal processing to phase-noise reduction in microwave oscillators
- An X-band self-mixing oscillator antenna for transceiver and spatial power-combining applications
- Hybrid integrated HEMT oscillator with a multiple-ring nonradiative dielectric (NRD) resonator feedback circuit
- V-band high-power low phase-noise monolithic oscillators and investigation of low phase-noise performance high drain bias

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- High-efficiency Ku-band oscillators
- GaAs HEMT monolithic voltage-controlled oscillators at 20 and 30 GHz incorporating Schottky-varactor frequency tuning
- Signal space and its implementation for microwave nonlinear-network analysis
- Improved HEMT model for low phase-noise InP-based MMIC oscillators
- Design of radiating K-band HEMT oscillators by means of moment-method approach
- Nonlinear modeling and design of bipolar transistors ultra-low phase-noise dielectric-resonator oscillators

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Papers by Issue

Nov. 1998, Part I [T-MTT]

- Table of Contents (Nov. 1998, Part I [T-MTT])
- Inside Cover (Nov. 1998, Part I [T-MTT])
- Compact DC-60-GHz HJFET MMIC switches using ohmic electrode-sharing technology
- Low-frequency noise characterization of self-aligned AlGaAs-GaAs heterojunction bipolar transistors with a noise corner frequency below 3 kHz
- Two new measurement methods for explicit determination of complex permittivity
- Performance and limitations of decomposition-based parameter extraction procedures for FET small-signal models
- Microwave signal rectification using artificial composite materials composed of diode-loaded electrically small dipole antennas

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- An accurate large-signal model of GaAs MESFET which accounts for charge conservation, dispersion, and self-heating
- Theory and experiment of thin-film junction circulator
- Microwave tomography: a two-dimensional Newton iterative scheme
- A 155-GHz monolithic low-noise amplifier
- Rectangularly driven class-A harmonic-control amplifier
- Improved impedance-pattern generation for automatic noise-parameter determination
- A new extraction method for the two-parameter FET temperature noise model
- Modeling of interaction of electromagnetic fields from a cellular telephone with hearing aids (Nov. 1998, Part I [T-MTT])
- Calibration of electric coaxial near-field probes and applications
- Nonlinear inversion in TE scattering

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- Integral equation modeling of cylindrically periodic scatterers in the interior of a cylindrical waveguide
- Analysis and development of millimeter-wave waveguide-junction circulator with a ferrite sphere
- Application of the AWE method with the 3-D TVFEM to model spectral responses of passive microwave components
- Generalized-scattering-matrix modeling of waveguide circuits using FDTD field simulations
- Numerical validations of a nonlinear PML scheme for absorption of nonlinear electromagnetic waves
- A high-resolution interpolation at arbitrary interfaces for the FDTD method
- Leakage and resonance characteristics of radiating cylindrical dielectric structure suitable for use as a feeder for high-efficient omnidirectional/sectorial antenna
- Propagation characteristics of the slotline first higher order mode

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Papers by Issue

- A new uniplanar broad-band singly balanced diode mixer
- A two-channel optical downconverter for phase detection
- Microwave noise parameters of pseudomorphic GaInAs HEMTs under optical illumination
- GaAs versus quartz FGC lines for MMIC applications
- An alternative method for end-effect characterization in shorted slotlines
- Toward an optimum design of NRD-guide and microstrip-line transition for hybrid-integration technology
- On the efficient implementation of SDA for boxed strip-like and slot-like structures
- Construction of the absorbing boundary conditions for the FDTD method with transfer functions
- Edge-element formulation of three-dimensional structures

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Nov. 1998, Part II [T-MTT] (Special Issue on Innovative Integration Techniques for Microwave and Millimeter-Wave Circuits)

- Table of Contents (Nov. 1998, Part II [T-MTT])
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- Foreword (Nov. 1998, Part II [T-MTT])
- Micromachining for terahertz applications
- Microtechnology in the development of three-dimensional circuits
- A 10-60-GHz micromachined directional coupler
- Integration of air-gap transmission lines on doped silicon substrates using glass microbump bonding techniques
- Optimized irregular structures for spatial- and temporal-field transformation
- RF-MEMS switches for reconfigurable integrated circuits
- Distributed MEMS true-time delay phase shifters and wide-band switches

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Papers by Issue

- Progress in active integrated antennas and their applications
- Novel architectures for high-efficiency amplifiers for wireless applications
- Microwave phase conjugation using antenna arrays
- Injection- and phase-locking techniques for beam control [antenna arrays]
- Novel beam-control techniques using dielectric-image-line-fed microstrip patch-antenna arrays for millimeter-wave applications
- Thin frequency-selective lattices integrated in novel compact MIC, MMIC, and PCA architectures
- Element efficiency and noise in grid arrays
- Properties of periodic arrays of symmetric complementary structures and their application to grid amplifiers
- Quasi-optical transmit/receive front ends
- A terahertz grid frequency doubler (Nov. 1998, Part II [T-MTT])

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- Voltage-controlled biphase attenuator and vector synthesizer for monolithic microwave signal processors

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Papers by Issue

Dec. 1998, Part I [T-MTT]

- Table of Contents (Dec. 1998, Part I [T-MTT])
- Inside Cover (Dec. 1998, Part I [T-MTT])
- Wide-band radiometry for remote sensing of oil films on water
- A configuration-oriented SPICE model for multiconductor transmission lines in an inhomogeneous medium
- Tuning a bandpass filter by optical control of a negative-resistance circuit
- A rectangular dielectric waveguide technique for determination of permittivity of materials at W-band
- Multitone frequency-domain simulation of nonlinear circuits in large- and small-signal regimes
- Input impedance conditions for minimizing the noise figure of an analog optical link (Dec. 1998, Part I [T-MTT])
- A broad-band balanced HEMT frequency doubler in uniplanar technology

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- Improved 240-GHz subharmonically pumped planar Schottky diode mixers for space-borne applications
- 40-GHz/150-ns versatile pulsed measurement system for microwave transistor isothermal characterization
- Design and experiments of a high-conversion-efficiency 5.8-GHz rectenna
- Miniature low-power submillimeter-wave spectrometer for remote sensing in the solar system
- Automated characterization of HF power transistors by source-pull and multiharmonic load-pull measurements based on six-port techniques
- SAR distribution and temperature increase in an anatomical model of the human eye exposed to the field radiated by the user antenna in a wireless LAN
- Relative-intensity-noise cancellation in bandpass external-modulation links
- Modified transmission and reflection coefficients of nonuniform transmission lines and their applications

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- Micromechanical tuning elements in a 620-GHz monolithic integrated circuit
- A W-band self-oscillating subharmonic MMIC mixer
- Broad-band microwave characterization of a tri-layer structure using a coaxial discontinuity with applications for magnetic liquids and films
- Theory and experiment of a rectangular slot on a sphere
- Analysis of a partially sealed package for microstrip-line circuits
- Divergent fields, charge, and capacitance in FDTD simulations
- Exploring new active materials for low-noise room-temperature microwave amplifiers and other devices
- A frequency-varying method for simultaneous measurement of complex permittivity and permeability with an open-ended coaxial probe
- Characterization of balanced transmission line by microwave techniques

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- Crossed dipoles fed with a turnstile network
- A simple method for blocking parasitic modes in a waveguide-packaged microstrip-line circuit
- Equivalent-circuit representation and explanation of attenuation poles of a dual-mode dielectric-resonator bandpass filter
- Rapid summation of the Green's function for the rectangular waveguide
- FDTD improvement by dielectric subgrid resolution
- Fast and accurate analysis of waveguide filters by the coupled-integral-equations technique (Comments and Authors' Reply)

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Papers by Issue

Dec. 1998, Part II [T-MTT] (1998 Symposium Issue)

- Front Cover (Dec. 1998, Part II [T-MTT])
- Table of Contents (Dec. 1998, Part II [T-MTT])
- Inside Cover (Dec. 1998, Part II [T-MTT])
- Guest Editors' Overview (Dec. 1998, Part II [T-MTT])
- The 1998 IEEE MTT-S International Microwave Symposium: Progress Through Microwaves (Dec. 1998, Part II [T-MTT])
- The 1998 IMS Technical Program (Dec. 1998, Part II [T-MTT])
- 1998 MTT-S Awards (Dec. 1998, Part II [T-MTT])
- Historical perspectives on commercial and nonmilitary government space applications of microwave systems in the Baltimore/Washington area
- Record power-added-efficiency, low-voltage GOI (GaAs on insulator) MESFET technology for wireless applications
- New applications of wirelessly interrogable passive SAW sensors (Dec. 1998, Part II [T-MTT])

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- A robust ultra-broad-band wireless communication system using SAW chirped delay lines
- L-band transmitter using Kahn EER technique
- A high-power and high-efficiency monolithic power amplifier at 28 GHz for LMDS applications
- A fast frequency-switching synthesizer with an integration circuit
- The distributed oscillator at 4 GHz (Dec. 1998, Part II [T-MTT])
- Distributed broad-band frequency translator and its use in a 1-3-GHz coherent reflectometer
- Simulation of high-speed interconnects in a multilayered medium in the presence of incident field
- Analytical model for electrical and thermal transients of self-heating semiconductor devices
- Millimeter-wave characteristics of flip-chip interconnects for multichip modules

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- RF and mechanical characterization of flip-chip interconnects in CPW circuits with underfill (Dec. 1998, Part II [T-MTT])
- A flip-chip MMIC design with coplanar waveguide transmission line in the W-band
- Low-loss micromachined filters for millimeter-wave communication systems
- Spatial power combining of Gunn diodes using an overmoded-waveguide resonator at millimeter wavelengths
- A fully distributed heterostructure-barrier varactor nonlinear transmission-line frequency multiplier and pulse sharpener
- 80-GHz distributed amplifiers with transferred-substrate heterojunction bipolar transistors
- A W-band dielectric-lens-based integrated monopulse radar receiver (Dec. 1998, Part II [T-MTT])
- Fiber-optic remoting of an ultrahigh dynamic range radar
- Grid oscillators with selective-feedback mirrors

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- Absolute potential measurements inside microwave digital IC's using a micromachined photoconductive sampling probe
- Electrooptic mapping of near-field distributions in integrated microwave circuits
- Characterizing the gate-to-source nonlinear capacitor role on GaAs FET IMD performance
- Efficient transient simulation of embedded subnetworks characterized by S-parameters in the presence of nonlinear elements
- Multidimensional Cauchy method and adaptive sampling for an accurate microwave circuit modeling
- Novel third-order distortion generator with residual IM2 suppression capabilities
- Element extraction of GaAs dual-gate MESFET small-signal equivalent circuit
- A hierarchical neural network approach to the development of a library of neural models for microwave design

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- Modeling of couplings between double-ridge waveguide and dielectric-loaded resonator
- A trust region aggressive space mapping algorithm for EM optimization (Dec. 1998, Part II [T-MTT])
- Suppression of the parasitic modes in CPW discontinuities using MCM-D technology-application to a novel 3-dB power splitter
- A fully integrated multiconductor model for TLM (Dec. 1998, Part II [T-MTT])
- Development of a "laminated waveguide"
- Fast-wave resonance by space-wave leaky mode carrying dominant-mode-like currents
- Characteristics and design consideration of leaky-wave NRD-guides for use as millimeter-wave antenna
- Surface-wave coupling of active antennas for homodyne sensor systems (Dec. 1998, Part II [T-MTT])
- Multiresolution analysis similar to the FDTD method: derivation and application

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- Characterization of near- and far-field radiation from ultrafast electronic systems
- Optimization of noise performance for various topologies of planar microwave active filters using noise wave techniques
- High-Q TE01 mode DR filters for PCS wireless base stations
- Dielectric combline resonators and filters (Dec. 1998, Part II [T-MTT])
- Simplified design technique for high-performance microstrip multisection couplers
- A new design procedure for single-layer and two-layer three-line baluns
- A novel vector network analyzer (Dec. 1998, Part II [T-MTT])
- Microwave measurements of surface impedance of high-T/sub c/ superconductors using two modes in a dielectric rod resonator
- Time-domain envelope measurement technique with application to wideband power amplifier modeling

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- A 44-GHz high IP3 InP-HBT amplifier with practical current reuse biasing
- 112-GHz, 157-GHz, and 180-GHz InP HEMT traveling-wave amplifiers
- Low-cost GaAs pHEMT MMIC's for millimeter-wave sensor applications
- A high-performance Si-bipolar RF receiver for digital satellite radio
- Q-enhanced LC bandpass filters for integrated wireless applications
- Micromachined electro-mechanically tunable capacitors and their applications to RFIC's
- Novel active differential phase splitters in RFIC for wireless applications (Dec. 1998, Part II [T-MTT])
- K/Ka-band low-noise embedded transmission line (ETL) MMIC amplifiers (Dec. 1998, Part II [T-MTT])
- Direct multilevel carrier modulation using millimeter-wave balanced vector modulators

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Papers by Issue

- Characterization and applications of on-wafer diode noise sources

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Papers by Issue

Jan. 1999 [T-MTT]

- Table of Contents (Jan. 1999 [T-MTT])
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- Calibration procedures with series impedances and unknown lines simplify on-wafer measurements
- Near-field and far-field prediction of quasi-optical grid arrays
- Approximation of state functions in measurement-based transistor model
- Capacitance extraction of 3-D conductor systems in dielectric media with high-permittivity ratios
- A novel quasi-optical resonator for the surface near-millimeter waves
- Pulse-time modulation of mutually coupled arrays of oscillators
- On the design of a series-feedback network in a transistor negative-resistance oscillator

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- A novel waveguide-to-microstrip transition for millimeter-wave module applications
- An analytical and numerical analysis of several locally conformal FDTD schemes
- Rectangular modes and dyadic Green's functions in a rectangular chirowaveguide. I. Theory
- Rectangular modes and dyadic Green's functions in a rectangular chirowaveguide. II. Results
- Direct extraction of HBT equivalent-circuit elements
- Microwave diversity imaging using six-port reflectometer
- Bandwidth and dispersion characteristics of a new rectangular waveguide with two L-shaped septa
- On-wafer characterization of millimeter-wave antennas for wireless applications
- Compact and broad-band three-dimensional MMIC balun
- Analysis and design of novel structures of artificial transmission lines for MMIC/MHMIC technology

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- Accuracy estimation of mixed-mode scattering parameter measurements
- New compensation functions for efficient excitation of open planar circuits in SDM
- Direct measurement of C/sub be/ and C/sub bc/ versus voltage for small HBT's with microwave s-parameters for scaled Gummel-Poon BJT models
- Characterization of high-Q resonators for microwave filter applications
- Revisiting characteristic impedance and its definition of microstrip line with a self-calibrated 3-D MoM scheme (Comments and Authors' Reply)

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Feb. 1999 [T-MTT]

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- Measurements of leaf water content using terahertz radiation
- Multifrequency formulation for electromagnetic scattering using shifted-frequency internal equivalence
- Experimental evaluation of microwave field-effect-transistor noise models
- Design and analysis of a coaxial coupler for a 35-GHz gyroklystron amplifier
- Metal-insulator-semiconductor transmission lines

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- An efficient Fourier transform algorithm for multitone harmonic balance
- A straightforward method for the FDTD analysis of quasi-optical arrays of active devices
- Size-reduction and band-broadening design technique of uniplanar hybrid ring coupler using phase inverter for M(H)MIC's
- The theory of surface-wave and space-wave leaky-mode excitation on microstrip lines
- Efficient analysis of microstrip-coupled nonradiative dielectric (NRD) resonators for hybrid integrated circuits
- Radiation and absorption losses of the whispering-gallery-mode dielectric resonators excited by a dielectric waveguide
- A full-wave modal analysis of arbitrarily shaped waveguide discontinuities using the finite plane-wave series expansion
- Analysis of asymmetric coplanar waveguide with conductor backing

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Papers by Issue

- A measurement-based design equation for the attenuation of MMIC-compatible coplanar waveguides
- A new phase-shifterless scanning technique for a two-element active antenna array
- Variational analysis of a gap in the central conductor of a rectangular coaxial line
- A deterministic approach for designing conditionally stable amplifiers (Comments and Authors' Reply)

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- Full-wave analysis of coaxial mounting structure
- An optimal circular-waveguide dual-mode filter without tuning screws
- Effectiveness analysis of lossy dielectric shields for a three-layered human model
- Ultra-low absorption measurement in dielectrics in millimeter- and submillimeter-wave range
- Waveguide characterization of chiral material: theory
- Waveguide characterization of chiral material: experiments
- Input impedance characteristics of coaxial slot antennas for interstitial microwave hyperthermia

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- New calibration method in electrooptic probing due to wavelength control and Fabry-Perot resonance
- FET noise-parameter determination using a novel technique based on 50-/spl Omega/ noise-figure measurements
- Suggestions for revised definitions of noise quantities, including quantum effects
- Analysis and design of circular ridged waveguide components
- Inverse scattering using the finite-element method and a nonlinear optimization technique
- A nonuniform FDTD technique for efficient analysis of propagation characteristics of optical-fiber waveguides
- Study of the effect of various parameters on nonlinear transmission-line (NLTL) performance
- A technique for improving the accuracy of the nonuniform finite-difference time-domain algorithm
- A modal analysis of TEM mode in circular-rectangular coaxial waveguides

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- Improving amplifier stability through resistive loading below the operating frequency
- Channel temperature measurement using pulse-gate method [power amplifier FET]
- A simplified derivation of the capacitance of a two-wire transmission line
- Uncertainty analysis of the transmission-type measurement of Q-factor
- Potential distributions through an annular aperture with a floating inner conductor
- An anisotropic PML for use with biaxial media

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- Computations for radiation and surface-wave losses in coplanar waveguide bandpass filters
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- On the fully numerical evaluation of the linear-shape function times the 3D Green's function on a plane triangle
- Multiconductor transmission-line characterization: Representations, approximations, and accuracy
- Evaluation of perfectly matched layer mesh terminations in finite-element bioelectromagnetic scattering computations
- Pulsed microwave characterization of an SiGe heterojunction bipolar transistor
- A high-power fixed-tuned millimeter-wave balanced frequency doubler

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- General coupling matrix synthesis methods for Chebyshev filtering functions
- Leakage fields from planar semi-infinite transmission lines (Apr. 1999 [T-MTT])
- A novel broad-band Chebyshev-response rat-race ring coupler
- A continuum model of the dynamics of coupled oscillator arrays for phase-shifterless beam scanning
- Continuum modeling of the dynamics of externally injection-locked coupled oscillator arrays
- Analysis and measurement of hard-horn feeds for the excitation of quasi-optical amplifiers
- Resonant modes of circular microstrip patches in multilayered substrates
- Design technique and performance assessment of new multiport multihole power divider suitable for M(H)MICs

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- Study of the relation between doping profile and diode CV characteristics
- Analysis of cylindrical transmission lines with the finite-difference time-domain method
- Fast computation of modified Mathieu functions applied to elliptical waveguide problems
- Accurate modeling for drain breakdown current of GaAs MESFET's
- Quasi-elliptic compact high-power notch filters using a mixed lumped and distributed circuit

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- Basic expressions and approximations in small-signal parameter extraction for HBT's
- A hybrid implicit-explicit FDTD scheme for nonlinear optical waveguide modeling
- Permittivity determination using amplitudes of transmission and reflection coefficients at microwave frequency
- One-port time-domain measurement of the approximate permittivity and permeability of materials
- TOM3 capacitance model: linking large- and small-signal MESFET models in SPICE

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- High-frequency characterization of power/ground-plane structures
- Long-term stabilized millimeter-wave generation using a high-power mode-locked laser diode module
- Thermal and package performance limitations in LDMOSFET's for RFIC applications
- Superconducting quasi-lumped element filter on R-plane sapphire
- Planar impedance transformer
- 2.5-THz GaAs monolithic membrane-diode mixer
- A circuit, waveguide, and spatial power combiner for millimeter-wave amplification
- W-band finite ground coplanar monolithic multipliers
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- Theory of microstrip lines on artificial periodic substrates
- A generalized Dirichlet principle for smoothing small-signal measurements [MESFET]

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- Analysis of optically controlled planar dielectric waveguides operating in the millimeter-wave band using FDTD
- Modeling the bias of the dependence of the base-collector capacitance of power heterojunction bipolar transistors
- A novel wide-band tunable RF phase shifter using a variable optical directional coupler
- Clarification of a decoupling method for multiconductor transmission lines
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- Comments on "Properties of and generalized full-wave transmission line models for hybrid (Bi)(an)isotropic waveguides" [and reply]
- Comments on "Upper cutoff frequency of the bound wave and new leaky wave on the slotline" [and reply]

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- Comments on "On the mode coupling in longitudinally magnetized waveguiding structures" [and reply]
- Authors' reply (May 1999 [T-MTT])
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- Advanced silicon IC interconnect technology and design: present trends and RF wireless implications
- Efficient simulation of coded MC-DS-CDMA systems
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- Performance of an adaptive rate modem using quasi-analytic simulation techniques
- Smart channel-assignment algorithm for SDMA systems
- Table-based dynamic FET model assembled from small-signal models
- A new method of accurately determining resonant frequencies of cylindrical and ring dielectric resonators
- Equivalent-circuit modeling and verification of metal-ceramic packages for RF and microwave power transistors

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- Criteria for the evaluation of unconditional stability of microwave linear two-ports: a critical review and new proof
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- Global time-domain full-wave analysis of microwave circuits involving highly nonlinear phenomena and EMC effects
- Waveguide bandpass filter analysis and design using multimode parallel FDTD diakoptics

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- A new approach to FET model scaling and MMIC design based on electromagnetic analysis
- Extrapolation of a measurement-based millimeter-wave nonlinear model of pHEMT to arbitrary-shaped transistors through electromagnetic simulations
- Linear and nonlinear FET modeling applying an electromagnetic and electrical hybrid software
- Global modeling of microwave applications by combining the FDTD method and a general semiconductor device and circuit simulator
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- Microstrip directional couplers with ideal performance via single-element compensation

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- Two-branch microwave channelized active bandpass filters

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Papers by Issue

- Fast full-wave analysis of multistrip transmission lines based on MPIE and complex image theory
- Spectrum of corrugated and periodically loaded waveguides from classical matrix eigenvalues
- Arbitrarily oriented perfectly matched layer in the frequency domain (Mar. 2000 [T-MTT]
- Design and modeling of twin-spiral coplanar-waveguide-to-slotline transitions
- An efficient characterization of interconnected multiconductor-transmisslon-line networks
- A simplified procedure to calculate the power gain definitions of FETs
- Dual-mode helical resonators
- TEM modeling of parasitic bandwidth expansion in combline filters (Corrections)

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Papers by Issue

Apr. 2000, Part I [T-MTT]

- Table of Contents (Apr. 2000, Part I [T-MTT])
- Inside Cover (Apr. 2000, Part I [T-MTT])
- Editorial (Apr. 2000, Part I [T-MTT])
- Mode conversion and design consideration of integrated nonradiative dielectric (NRD) components and discontinuities
- A unified analytical model and experimental validations of injection-locking processes
- On nonlinear modeling of microwave devices using interpolating wavelets
- Miniaturized artificial-transmission-line monolithic millimeter-wave frequency doubler
- Co-layered integration and interconnect of planar circuits and nonradiative dielectric (NRD) waveguide
- A K-band-frequency agile microstrip bandpass filter using a thin-film HTS/ferroelectric/dielectric multilayer configuration

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Papers by Issue

- Moment-method analysis of arbitrary 3-D metallic N-port waveguide structures
- Spatial resolution of microwave tomography for detection of myocardial ischemia and infarction-experimental study on two-dimensional models
- Analysis of noise-injection networks for interferometric-radiometer calibration
- Dielectric frequency-selective structures incorporating waveguide gratings
- Nonreciprocity and the optimum operation of ferrite coupled lines
- Period-doubling analysis and chaos detection using commercial harmonic balance simulators
- Reduction of numerical dispersion in FDTD method through artificial anisotropy
- Analysis of inhomogeneously filled waveguides using a bi-orthonormal-basis method

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Papers by Issue

- Modal analysis of discontinuities between elliptical waveguides
- FDTD characterization of evanescent modes-multimode analysis of waveguide discontinuities
- Dispersion characteristics of grooved microstrip line (GMSL)
- Microwave reflection and transmission properties of high-performance heat reflective glass
- Tunable microwave coupler buried in low-temperature co-fired ceramic
- High-Impedance Electramagoetic Surfaces with a Forbidden Frequency Hand (Corrections)
- Information for Authors (Apr. 2000, Part I [T-MTT])

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Papers by Issue

Apr. 2000, Part II [T-MTT] (Special Issue on Terahertz Electronics)

- Table of Contents (Apr. 2000, Part II [T-MTT])
- Inside Cover (Apr. 2000, Part II [T-MTT])
- Guest editorial (Apr. 2000, Part II [T-MTT])
- Recent advances in the performance of InP Gunn devices and GaAs TUNNETT diodes for the 100-300-GHz frequency range and above
- An inter-subband device with terahertz applications
- Self-consistent analysis of carrier-transport and carrier-capture dynamics in quantum cascade intersubband semiconductor lasers
- Solid-state terahertz sources using quantum-well intersubband transitions
- Tunable terahertz-wave parametric oscillators using LiNbO/sub 3/ and MgO:LiNbO/sub 3/ crystals
- A 350-GHz SIS antipodal finline mixer

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Papers by Issue

- The p-Ge terahertz laser-properties under pulsed- and mode-locked operation
- Heterostructure-barrier-varactor design
- Superconductive hot-electron-bolometer mixer receiver for 800-GHz operation
- Conversion gain and fluctuation noise of phonon-cooled hot-electron bolometers in hot-spot regime
- Modeling and design aspects of millimeter-wave and submillimeter-wave Schottky diode varactor frequency multipliers
- Spectral transmittance of lossy printed resonant-grid terahertz bandpass filters
- Comparison of modulated impurity-concentration InP transferred electron devices for power generation at frequencies above 130 GHz
- Simulation of terahertz Doppler wavelength shifting of infrared optical pulses in an active semiconductor layer
- A 2.5-THz receiver front end for spaceborne applications

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Papers by Issue

- Gas-absorption spectroscopy with electronic terahertz techniques
- Characterization and application of dichroic filters in the 0.1-3-THz region
- Terahertz sources and detectors using two-dimensional electronic fluid in high electron-mobility transistors
- Investigation of subharmonic mixer based on a quantum barrier device

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Papers by Issue

May 2000 [T-MTT]

- Table of Contents (May 2000 [T-MTT])
- Inside Cover (May 2000 [T-MTT])
- Editorial (May 2000 [T-MTT])
- Resonances in heterogeneous dielectric bodies with rotational symmetry-volume integral-equation formulation
- A low-current and low-distortion wideband amplifier using 0.2-/spl mu/m gate MODFET fabricated by using phase-shift lithography
- A robust integrated multibias parameter-extraction method for MESFET and HEMT models
- Power optimization of high-efficiency microwave MESFET oscillators
- Laterally resolved microwave surface-resistance measurement of high-T/sub c/ superconductor samples by cavity substitution technique
- Commutation quality factor of two-state switchable devices

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Papers by Issue

- The design of serpentine-mode converters for high-power microwave applications
- A novel simplified four-port scattering parameter model for design of four-pair twisted-pair cabling systems for local area networks
- An analytical approach in calculation of noise spectrum in microwave oscillators based on harmonic balance
- An efficient algorithm for analyzing large-scale microstrip structures using adaptive integral method combined with discrete complex-image method
- DC-110-GHz MMIC traveling-wave switch
- Optically induced mask-controlled time-variable periodic microwave structures
- Quasi-TEM characteristic impedance of micromachined CMOS coplanar waveguides
- Remote millimeter-wave beam control by the illumination of a semiconductor
- A distributed-feedback antenna oscillator

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Papers by Issue

- Modeling of broad-band traveling-wave optical-intensity modulators
- Field expressions and patterns in elliptical waveguide
- A power and efficiency measurement technique for active patch antennas
- On the Goubau-Schwering beam waveguide using a modified paraxial approximation
- A low-impedance coplanar waveguide using an SrTiO/sub 3/ thin film for GaAs power MMIC's
- Gradient evaluation for neural-networks-based electromagnetic optimization procedures
- Analysis of hollow conducting waveguides using superquadric functions-A unified representation
- A mode-matching technique for the study of circular and coaxial waveguide discontinuities based on closed-form coupling integrals
- Information for Authors (May 2000 [T-MTT])

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Papers by Issue

Jun. 2000 [T-MTT] (Mini-Special Issue on the 1999 IEEE Radio and Wireless Conference (RAWCON))

- Table of Contents (Jun. 2000 [T-MTT])
- Inside Cover (Jun. 2000 [T-MTT])
- Guest Editorial (Jun. 2000 [T-MTT])
- Watt-level Ka- and Q-band MMIC power amplifiers operating at low voltages
- A predistortion linearizer using envelope-feedback technique with simplified carrier cancellation scheme for class-A and class-AB power amplifiers
- A phase-interpolation direct digital synthesizer with an adaptive integrator
- A new quasi-Yagi antenna for planar active antenna arrays
- System aspects of smart-antenna technology in cellular wireless communications-an overview

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- Vector channels for smart antennas. Measurements, statistical modeling, and directional properties in outdoor environments
- Common-channel soft handoff in cdma2000 - The paging channel
- Mobile ranging using low-accuracy clocks
- Editorial (Jun. 2000 [T-MTT])
- Port reduction methods for scattering matrix measurement of an n-port network
- Hybrid finite-difference/finite-volume time-domain analysis for microwave integrated circuits with curved PEC surfaces using a nonuniform rectangular grid
- Optimal finite-difference sub-gridding techniques applied to the Helmholtz equation
- Integer lattice gas automata for computational electromagnetics
- Modeling, analysis, and design of RF LDMOS devices using harmonic-balance device simulation

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Papers by Issue

- Fabrication and performance of InP-based heterostructure barrier varactors in a 250-GHz waveguide tripler
- A four-port scattering matrix formalism for p-i-n traveling-wave photodetectors
- Analysis and design of integrated active circulator antennas
- Monolithic tunable active inductor with independent Q control
- On the FEM treatment of wedge singularities in waveguide problems
- Design optimization and characterization of high-gain GaInP/GaAs HBT distributed amplifiers for high-bit-rate telecommunication
- High-isolation CPW MEMS shunt switches. 1. Modeling
- High-isolation CPW MEMS shunt switches. 2. Design
- Full-wave analysis of circular microstrip resonators in multilayered media containing uniaxial anisotropic dielectrics, magnetized ferrites, and chiral materials

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Papers by Issue

- Antenna arrays in MCM-D technology fed by coplanar CPW networks
- On the significance of envelope peak-to-average ratio for estimating the spectral regrowth of an RF/microwave power amplifier
- Three-dimensional microwave tomography: experimental imaging of phantoms and biological objects
- Improved design for symmetrical six-port microstrip coupler (based on double-ring-with-star topology)
- Chiral hard-surface waveguide mode transformer
- Information for Authors (Jun. 2000 [T-MTT])

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Papers by Issue

Jul. 2000, Part I [T-MTT]

- Table of Contents (Jul. 2000, Part I [T-MTT])
- Inside Cover (Jul. 2000, Part I [T-MTT])
- Optimization of the PML efficiency in 3-D TLM method
- TFDTLM-a new computationally efficient frequency-domain transmission-line-matrix method
- Design of highly selective microstrip bandpass filters with a single pair of attenuation poles at finite frequencies
- A new theory of the characteristic impedance of general printed transmission lines applicable when power leakage exists
- Specific absorption rate and temperature increases in the head of a cellular-phone user
- Three-dimensional optical pulse simulation using the FDTD method
- Generic-device frequency-multiplier analysis-a unified approach

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- A slotted-waveguide power amplifier for spatial power-combining applications
- Analysis of a nonconfocal suspended strip in an elliptical cylindrical waveguide
- Scattering from multiple grooves in the inner conductor of a coaxial line
- Accurate characterization of the interaction between coupling slots and waveguide bends in waveguide slot arrays
- A varactor-tuned RF filter
- A broad-band sleeve monopole integrated into parallel-plate waveguide
- Information for Authors (Jul. 2000, Part I [T-MTT])

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Papers by Issue

Jul. 2000, Part II [T-MTT] (Special Issue on Microwave and Communication Applications at Low Temperature)

- Table of Contents (Jul. 2000, Part II [T-MTT])
- Inside Cover (Jul. 2000, Part II [T-MTT])
- Guest Editorial (Jul. 2000, Part II [T-MTT])
- A 60-channel superconductive input multiplexer integrated with pulse-tube cryocoolers
- Design and development of ferroelectric tunable microwave components for Kuand K-band satellite communication systems
- Applications of high-temperature-superconducting filters and cryoelectronics for satellite communication
- Feasibility and commercial viability issues for high-power output multiplexers for space applications
- System demonstration of a multigigabit network switch

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Papers by Issue

- A cryogenic K-band ground terminal for NASA'S direct-data-distribution space experiment
- Comparison of power dependence of microwave surface resistance of unpatterned and patterned YBCO thin film
- Superconductors and cryogenics for future communication systems
- On the performance of HTS microstrip quasi-elliptic function filters for mobile communications application
- Development of CAD tool for a design of microwave planar HTS filters
- Elliptic-disc filters of high-T/sub c/ superconducting films for power-handling capability over 100 W
- Cryogenically cooled sapphire-rutile dielectric resonators for ultrahigh-frequency stable oscillators for terrestrial and space applications [atomic frequency standards]
- Single-crystal dielectric resonators for low-temperature electronics applications

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Papers by Issue

- Monte Carlo simulation of microwave noise temperature in cooled GaAs and InP
- An efficient analysis method for nonlinear effects in high-power HTSC planar microwave circuits
- Cryogenic indium-phosphide HEMT low-noise amplifiers at V-band
- Investigating high-T/sub c/ superconductors-a cryogenic microwave broad-band calibration
- Space-based high-temperature superconductivity experiment-design and performance

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Papers by Issue

Aug. 2000 [T-MTT]

- Table of Contents (Aug. 2000 [T-MTT])
- Inside Cover (Aug. 2000 [T-MTT])
- Fabrication and characterization of micromachined rectangular waveguide components for use at millimeter-wave and terahertz frequencies
- A low-power GaAs front-end IC with current-reuse configuration using 0.15-/spl mu/m-gate MODFETs
- HEMT-HBT matrix amplifier
- Design and performance of a Ka-band monolithic phase shifter utilizing nonresonant FET switches
- A single-chip GaAs MMIC image-rejection front-end for digital European cordless telecommunications
- Micromachined microwave planar spiral inductors and transformers
- A high-temperature superconducting duplexer for cellular base-station applications

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Papers by Issue

- New method for determining the permeability tensor of magnetized ferrites in a wide frequency range
- Variable delay line for phased-array antenna based on a chirped fiber grating
- Concerning the influence of housing dimensions on the response and design of microstrip filters with parallel-line couplings [HTS circuits]
- Design and analysis of an asymmetrically fed insulated coaxial slot antenna with enhanced tip-heating performance
- A seven-element S-band coupled-oscillator controlled agile-beam phased array
- Reconstructing permittivity profiles using integral transforms and improved renormalization techniques
- Effect of substrate dielectric anisotropy on the frequency behavior of microstrip circuits
- A new unequal three-tone signal method for AM-AM and AM-PM distortion measurements suitable for characterization of satellite communication transmitters/transponders

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Papers by Issue

- A 500-mW high-efficiency Si MOS MMIC amplifier for 900-MHz-band use
- Direct measurement of crosstalk between integrated differential circuits
- Two-dimensional computer analysis of a microwave flat antenna array for breast cancer tomography
- A 140-170-GHz low-noise uniplanar subharmonic Schottky receiver
- Reflection resonances and natural oscillations of two-aperture iris in rectangular waveguide
- A continuum model of the dynamics of coupled oscillator arrays for phase-shifterless beam scanning (Corrections)
- Continuum modeling of the dynamics of externally injection-locked coupled oscillator arrays (Corrections)
- Information for Authors (Aug. 2000 [T-MTT])

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Papers by Issue

Sep. 2000 [T-MTT] (Mini-Special Issue on Research Reported at the 8th Topical Meeting on Electrical Performance of Electronic Packaging (EPEP) 1999)

- Table of Contents (Sep. 2000 [T-MTT])
- Inside Cover (Sep. 2000 [T-MTT])
- Guest editorial (Sep. 2000 [T-MTT])
- Domain decomposition approach for capacitance computation of nonorthogonal interconnect structures
- Enhanced skin effect for partial-element equivalent-circuit (PEEC) models
- CAD-oriented equivalent-circuit modeling of on-chip interconnects on lossy silicon substrate
- Study of meander line delay in circuit boards
- Improved global rational approximation macromodeling algorithm for networks characterized by frequency-sampled data

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Papers by Issue

- Laguerre-SVD reduced-order modeling
- Design rule development for microwave flip-chip applications
- Millimeter-wave silicon MMIC interconnect and coupler using multilayer polyimide technology
- 77-GHz-band surface mountable ceramic package
- Two techniques for the efficient numerical calculation of the Green's functions for planar shielded circuits and antennas
- A new lumped-elements power-combining amplifier based on an extended resonance technique
- Combination dielectric resonator, power combiner, and antenna
- Experimentally based modeling of field sources for three-dimensional computation of SAR in electromagnetic hyperthermia and treatment planning
- Method for the acceleration of transmission-line coupling calculations

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Papers by Issue

- Electric current and electric field induced in the human body when exposed to an incident electric field near the resonant frequency
- Steerable phased array antennas using single-crystal YIG phase shifters-theory and experiments
- Toward the development of a three-dimensional unconditionally stable finite-difference time-domain method
- Synthesis of cross-coupled resonator filters using an analytical gradient-based optimization technique
- An efficient systematic approach to model extraction for passive microwave circuits
- A contribution to the modeling of longitudinally periodic waveguides by the help of the TLM method
- Analysis of partial-height ferrite-slab differential phase-shift sections
- Improved microwave performance on low-resistivity Si substrates by Si/sup +/ ion implantation
- Asymmetric four-port and branch-line hybrids

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Papers by Issue

- Noise temperature of a lossy flat-plate reflector for the elliptically polarized wave-case
- Multilayer microstrip directional coupler with discrete coupling
- An aggressive approach to parameter extraction (Corrections)

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Papers by Issue

Oct. 2000 [T-MTT]

- Table of Contents (Oct. 2000 [T-MTT])
- Inside Cover (Oct. 2000 [T-MTT])
- Power loss associated with conducting and superconducting rough interfaces
- Full-wave analysis of MICs in multilayer dielectric media in a rectangular waveguide
- Efficient hybrid spatial and spectral techniques in analyzing planar periodic structures with nonuniform discretizations
- Integrated active antenna array using unidirectional dielectric radiators
- Three-dimensional high-frequency distribution networks. I. Optimization of CPW discontinuities
- Three-dimensional high-frequency distribution networks. II. Packaging and integration
- Accuracy of the method of moments for scattering by a cylinder

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Papers by Issue

- Efficient description of impedance and radiation features in printed-circuit leaky-wave structures-an unconventional scattering-matrix approach
- Impact of light illumination and passivation layer on silicon finite-ground coplanar-waveguide transmission-line properties
- A dual-polarized quasi-optical SIS mixer at 550 GHz
- A substrate-dependent CAD model for ceramic multilayer capacitors
- Power performance and scalability of AlGaN/GaN power MODFETs
- Unified analytical expressions for transimpedance and equivalent input noise current of optical receivers
- Input impedance of a coaxial-line fed probe in a thick coaxial-line waveguide
- Determination of simple equivalent circuits of interacting discontinuities in waveguides or transmission lines
- Periodic waveguide structures with long cells

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Papers by Issue

- Extending scattering-parameter approach to characterization of linear time-varying microwave devices
- An efficient CAD-oriented large-signal MOSFET model
- 3-D ADI-FDTD method-unconditionally stable time-domain algorithm for solving full vector Maxwell's equations
- High-performance transitions for overmoded operation of elliptical waveguides
- Resonant modes of circular microstrip patches over ground planes with circular apertures in multilayered substrates containing anisotropic and ferrite materials
- Frequencies of a truncated circular waveguide-method of internal matching
- A novel scheme for reception using an active microstrip antenna
- High combining-efficiency X-band spatial power-combined array using a multilayered packaging architecture
- Design of waveguide narrow-wall short-slot couplers

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Papers by Issue

- Nonlinear gain compression in microwave amplifiers using generalized power-series analysis and transformation of input statistics

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Papers by Issue

Nov. 2000, Part I [T-MTT] (Mini-Special Issue on RF/Microwave Applications in Medicine)

- Table of Contents (Nov. 2000, Part I [T-MTT])
- Inside Cover (Nov. 2000, Part I [T-MTT])
- Editorial (Nov. 2000, Part I [T-MTT])
- Study on dental diagnosis and treatment using millimeter waves
- Development of RF and microwave heating equipment and clinical applications to cancer treatment in Japan
- Heating characteristics of array applicator composed of two coaxial-slot antennas for microwave coagulation therapy
- Development of inductive regional heating system for breast hyperthermia
- Numerical assessment concerning a focused microwave diagnostic method for medical applications
- Two-dimensional dielectric profile reconstruction based on spectral-domain moment method and nonlinear optimization

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Papers by Issue

- A clinical prototype for active microwave imaging of the breast
- Microwave detection of breast cancer
- Determination of electromagnetic phased-array driving signals for hyperthermia based on a steady-state temperature criterion
- Comparison of performances of electrical impedance tomography evaluated with 2-D and 3-D models
- RF/microwave-aided tumescent liposuction
- Microwave treatments for prostate disease (Nov. 2000, Part I [T-MTT])
- Development and experimental verification of the wide-aperture catheter-based microwave cardiac ablation antenna
- Electromagnetic imaging for an imperfectly conducting cylinder by the genetic algorithm [medical application]
- Development of double-electrode applicator for localized thermal therapy

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- Chaotic dynamics in coupled microwave oscillators
- The complete set of dyadic Green's functions for the parallel-plate chirowaveguide and the application to the coaxial-probe excitation method
- Appropriate modeling of the ear for compliance testing of handheld MTE with SAR safety limits at 900/1800 MHz
- Network analysis and synthesis of multislot back-to-back microstrip directional couplers
- Microwave MEMS-based voltage-controlled oscillators
- Investigation of numerical errors of the two-dimensional ADI-FDTD method [for Maxwell's equations solution]
- Optimization of distributed MEMS transmission-line phase shifters-U-band and W-band designs
- Simple analytic formulas for the nonlocal field generated by circuit elements in multilayer structures
- An error in the waveguide handbook

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Papers by Issue

Nov. 2000, Part II [T-MTT] (Special Issue on Medical Application and Biological Effects of RF/Microwaves)

- Table of Contents (Nov. 2000, Part II [T-MTT])
- Inside Cover (Nov. 2000, Part II [T-MTT])
- Editorial (Nov. 2000, Part II [T-MTT])
- Polarization and human body effects on the microwave absorption in a human head exposed to radiation from handheld devices
- The dependence of electromagnetic energy absorption upon human head tissue composition in the frequency range of 300-3000 MHz
- Human exposure to radio base-station antennas in urban environment
- Analysis of the interaction between a layered spherical human head model and a finite-length dipole

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Papers by Issue

- Simulation of human interaction with mobile telephones using hybrid techniques over coupled domains
- Experimental thermographic analysis of thermal effects induced on a human head exposed to 900-MHz fields of mobile phones
- Use of PML absorbing layers for the truncation of the head model in cellular telephone simulations
- An efficient RF exposure system with precise whole-body average SAR determination for in vivo animal studies at 900 MHz
- Effects of frequency, permittivity, and voxel size on predicted specific absorption rate values in biological tissue during electromagnetic-field exposure
- Effectiveness of FDTD in predicting SAR distributions from the lucite cone applicator
- SAR generated by commercial cellular phones-phone modeling, head modeling, and measurements
- Cell membrane permeabilization of human erythrocytes by athermal 2450-MHz microwave radiation

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Papers by Issue

- Microwave radiation induces a heat-shock response and enhances growth in the nematode Caenorhabditis elegans
- Integrated models for the analysis of biological effects of EM fields used for mobile communications
- The SAR evaluation method by a combination of thermographic experiments and biological tissue-equivalent phantoms
- Biological effects of millimeter wave irradiation on mice-preliminary results
- Skin heating effects of millimeter-wave irradiation-thermal modeling results
- A model for predicting electromagnetic interference of implanted cardiac pacemakers by mobile telephones
- FDTD analysis of microwave hearing effect
- Analysis, design, and experimental verification of microwave filters for safety issues in open-ended waveguide systems

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Papers by Issue

- Feasibility of noninvasive measurement of deep brain temperature in newborn infants by multifrequency microwave radiometry
- Evaluation of electromagnetic interference from a cellular telephone with a hearing aid
- Electric fields induced in cells in the bodies of amateur radio operators by their transmitting antennas
- Accurate microwave resonant method for complex permittivity measurements of liquids [biological]
- On the feasibility of detecting flaws in artificial heart valves
- Nonthermal effects of extremely high-frequency microwaves on chromatin conformation in cells in vivo-dependence on physical, physiological, and genetic factors
- Comparison of averaging procedures for SAR distributions at 900 and 1800 MHz
- Combined electromagnetic and heat-conduction analysis of rapid rewarming of cryopreserved tissues

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- Computer simulation and experimental studies of SAR distributions of interstitial arrays of sleeved-slot microwave antennas for hyperthermia treatment of brain tumors

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Papers by Issue

Dec. 2000 [T-MTT] (Special Issue on 2000 International Microwave Symposium)

- Table of Contents (Dec. 2000 [T-MTT])
- Inside Cover (Dec. 2000 [T-MTT])
- Guest editors' overview (Dec. 2000 [T-MTT])
- IMS2000 Sets New Records and Innovates in Boston (Dec. 2000 [T-MTT])
- An Overview of the IMS2000 Technical Program (Dec. 2000 [T-MTT])
- 2000 MTT-S awards (Dec. 2000 [T-MTT])
- Novel closed-form Green's function in shielded planar layered media
- Design consideration for modeless integrated circuit substrates using planar periodic patches
- The influence of a top cover on the leakage from microstrip line (Dec. 2000 [T-MTT])

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Papers by Issue

- The perfectly matched layer as lateral boundary in finite-difference transmission-line analysis (Dec. 2000 [T-MTT])
- Macro-elements for efficient FEM simulation of small geometric features in waveguide components (Dec. 2000 [T-MTT])
- An efficient analysis of planar microwave circuits using a DWT-based Haar MRTD scheme
- Direct synthesis of microwave filters using inverse scattering transmission-line matrix method
- Rigorous modeling of packaged Schottky diodes by the nonlinear lumped network (NL/sup 2/N)-FDTD approach
- The inclusion of fringing capacitance and inductance in FDTD for the robust accurate treatment of material discontinuities (Dec. 2000 [T-MTT])
- Optimal shape design of microwave device using FDTD and design sensitivity analysis
- Space-mapping optimization of microwave circuits exploiting surrogate models

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Papers by Issue

- Neural space-mapping optimization for EM-based design
- Nonlinear statistical modeling and yield estimation technique for use in Monte Carlo simulations [microwave devices and ICs]
- Passive model reduction of multiport distributed interconnects
- A new macromodeling approach for nonlinear microwave circuits based on recurrent neural networks (Dec. 2000 [T-MTT])
- Efficient sensitivity analysis of transmission-line networks using model-reduction techniques
- Bias-dependent linear scalable millimeter-wave FET model
- An improved deep submicrometer MOSFET RF nonlinear model with new breakdown current model and drain-to-substrate nonlinear coupling
- Scalable GaInP/GaAs HBT large-signal model (Dec. 2000 [T-MTT])

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Papers by Issue

- Linearity characteristics of GaAs HBTs and the influence of collector design
- A circuit reduction technique for finding the steady-state solution of nonlinear circuits
- Tuning analysis for the high-Q class-E power amplifier
- Compact InP-based HBT VCOs with a wide tuning range at W- and D-band
- Asymmetric coupled CMOS lines-an experimental study
- On-chip spiral inductors suspended over deep copper-lined cavities
- Wide-band lumped-element quadrature 3-dB couplers in microstrip
- Waveguide branch couplers for tight couplings (Dec. 2000 [T-MTT])
- Tunable dielectric resonators with dielectric tuning disks
- A design of novel grooved circular waveguide polarizers (Dec. 2000 [T-MTT])

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Papers by Issue

- Edge-coupled coplanar waveguide bandpass filter design (Dec. 2000 [T-MTT])
- Full-wave modeling of electric coupling probes in comb-line resonators and filters
- Mobius dual-mode resonators and bandpass filters
- Single-passband single-stopband narrow-band filters
- Quasi-dual-mode resonators
- New cross-coupled filter design using improved hairpin resonators
- Application of the planar I/O terminal to dual-mode dielectric-waveguide filters
- A design procedure for bandstop filters in waveguides supporting multiple propagating modes
- K-band phased array antennas based on Ba/sub 0.60/Sr/sub 0.40/TiO/sub 3/ thin-film phase shifters
- High-temperature superconducting nonlinear transmission lines

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Papers by Issue

- Superconducting filter for IMT-2000 band (Dec. 2000 [T-MTT])
- W-band HEMT-oscillator MMICs using subharmonic injection locking
- Low-phase-noise low-power IC VCOs for 5-8-GHz wireless applications
- A low-voltage actuated micromachined microwave switch using torsion springs and leverage
- A high-efficiency and low-phase-noise 38-GHz pHEMT MMIC tripler
- Novel DC-offset cancellation techniques for even-harmonic direct conversion receivers
- An L-band high-efficiency and low-distortion power amplifier using HPF/LPF combined interstage matching circuit
- 42% high-efficiency two-stage HBT power-amplifier MMIC for W-CDMA cellular phone systems (Dec. 2000 [T-MTT])
- A 3-10-GHz GaN-based flip-chip integrated broad-band power amplifier

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Papers by Issue

- Temperature-dependent small-signal and noise parameter measurements and modeling on InP HEMTs
- An approach to single optical component antenna base stations for broad-band millimeter-wave fiber-radio access systems
- Indirect optically injection-locked oscillator for millimeter-wave communication system
- Waveguide integrated photodiode for analog fiber-optics links
- Fiber-edge electrooptic/magnetooptic probe for spectral-domain analysis of electromagnetic field
- High-power time-domain measurement system with active harmonic load-pull for high-efficiency base-station amplifier design
- An active pulsed RF and pulsed DC load-pull system for the characterization of HBT power amplifiers used in coherent radar and communication systems
- A bilateral lightwave network analyzer-architecture and calibration

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- A novel W-band spectrometer for dielectric measurements (Dec. 2000 [T-MTT])
- Application of digital PGA technology to K-band microcircuit and microwave subsystem packages
- A compact 5-bit phase-shifter MMIC for K-band satellite communication systems
- Analysis of the performance of four-cascaded single-stage distributed amplifiers
- Suppression of leakage resonance in coplanar MMIC packages using a Si sub-mount layer
- Advances in catheter ablation for the treatment of cardiac arrhythmias (Dec. 2000 [T-MTT])
- A study of uncertainties in modeling antenna performance and power absorption in the head of a cellular phone user
- A transmit/receive active antenna with fast low-power optical switching (Dec. 2000 [T-MTT])
- A waveguide-based aperture-coupled patch amplifier array-full-wave system analysis and experimental validation

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Papers by Issue

- 1.6- and 3.3-W power-amplifier modules at 24 GHz using waveguide-based power-combining structures
- Analog predistortion linearizer for high-power RF amplifiers
- Calibratable adaptive antenna combiner at 5.2 GHz with high yield for laptop interface card
- Reconstruction of permittivity profiles in cylindrical objects illuminated by higher order TE/sub mn/ and TM/sub mn/ modes
- A wireless pressure-measurement system using a SAW hybrid sensor
- A real-time close-range imaging system with fixed antennas
- Information for Authors (Dec. 2000 [T-MTT])
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- Editorial (Jan. 2001 [T-MTT])
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- Power-amplifier modules covering 70-113 GHz using MMICs
- Fully integrated 5.35-GHz CMOS VCOs and prescalers
- Effects of offsets on bipolar integrated circuit mixer even-order distortion terms
- Analysis of current crowding effects in multiturn spiral inductors

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- Accuracy evaluation of on-wafer load-pull measurements
- A compact manufacturable 76-77-GHz radar module for commercial ACC applications
- Cold tests and modeling of low-Q quasi-optical resonators
- A generalized space-mapping tableau approach to device modeling
- Temperature dependence of composite microwave cavities
- A design of the low-pass filter using the novel microstrip defected ground structure
- Extraction of network parameters in the electromagnetic analysis of planar structures using the method of moments
- Model of thin-film microstrip line for circuit design
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- A multiresolution MoM analysis of multiport structures using matched terminations
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- An algorithm for calculating the coupling between MMICs with block dielectric coverings
- Modeling and characterization of the bonding-wire interconnection
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- Analysis of eddy-current losses over conductive substrates with applications to monolithic inductors and transformers
- Full-wave analysis of nonplanar transmission lines on layered medium by means of MPIE and complex image theory
- A unified model for single/multifinger HBTs including self-heating effects
- Relationship between group delay and stored energy in microwave filters

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- Exact analysis of coupled nonuniform transmission lines with exponential power law characteristic impedance
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- Application of the nonuniform FDTD technique to analysis of coaxial discontinuity structures
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- Scattering matrices representing the transformations between modal bases in rectangular waveguide
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- Application of a new MPIE formulation to the analysis of a dielectric resonator embedded in a multilayered medium coupled to a microstrip circuit
- Dispersion of homogeneous and inhomogeneous waves in the Yee finite-difference time-domain grid
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- Design and characterization of single- and multiple-beam mm-wave circularly polarized substrate lens antennas for wireless communications
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- Improving time-domain measurements with a network analyzer using a robust rational interpolation technique
- SFELP-an efficient methodology for microwave circuit analysis
- A quasi-one-dimensional integration technique for the analysis of planar microstrip circuits via MPIE/MoM
- Complex resonance and radiation of hemispherical dielectric-resonator antenna with a concentric conductor
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- Electric current and electric field induced in the human body when exposed to an incident electric field near the resonant frequency" and "Electric fields induced in cells..." (Comments)

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- Electric current and electric field induced in the human body when exposed to an incident electric field near the resonant frequency" and "Electric fields induced in cells..." (Author's Reply)
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- A wireless spread-spectrum communication system using SAW chirped delay lines
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- Time-domain wavelet Galerkin modeling of two-dimensional electrically large dielectric waveguides
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- An efficient method to analyze the H-plane waveguide junction circulator with a ferrite sphere
- Prediction of a CDMA output spectrum based on intermodulation products of two-tone test
- Formulas of microstrip with a truncated substrate by synthetic asymptotes: a novel analysis technique
- On the convergence of the classical symmetrical condensed node-TLM scheme
- An antenna diversity MMIC vector modulator for HIPERLAN with low power consumption and calibration capability

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- Beam-cavity interaction circuit at W-band
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- A general noise and S-parameter deembedding procedure for on-wafer high-frequency noise measurements of MOSFETs

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Nov. 2001 [T-MTT] (Special Issue on the 2000 Asia-Pacific Microwave Conference)

- Table of Contents (Nov. 2001 [T-MTT])
- Inside Cover (Nov. 2001 [T-MTT])
- Guest Editorial (Nov. 2001 [T-MTT])
- K-band and millimeter-wave MMICs for emerging commercial wireless applications
- MMIC development for millimeter-wave space application
- Ultra-low-noise indium-phosphide MMIC amplifiers for 85-115 GHz
- Analog MMICs for millimeter-wave applications based on a commercial 0.14-/spl mu/m pHEMT technology
- Self-assembling MEMS variable and fixed RF inductors
- Packaging using microelectromechanical technologies and planar components
- Measurement and characterization of HEMT dynamics
- Size-reduction techniques for CPW and ACPS structures

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Papers by Issue

- Do we really need ferroelectrics in paraelectric phase only in electrically controlled microwave devices?
- Automated computer-controlled tuning of waveguide filters using adaptive network models
- Maximizing signal strength for OFDM inside buildings
- Constant flux illumination of square cells for millimeter-wave wireless communications
- Performance analysis of smart antenna test-bed operating in a wide-band CDMA channel
- An iterative FEM for scattering by a 3-D cavity-backed aperture
- Modal analysis of waveguide antennas with arbitrary cross sections
- Design and characterization of a 120-GHz millimeter-wave antenna for integrated photonic transmitters
- Synergistic design of DSP and power amplifiers for wireless communications
- Information for Authors (Nov. 2001 [T-MTT])

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Papers by Issue

Dec. 2001 [T-MTT] (Special Issue on 2001 International Microwave Symposium)

- Table of Contents (Dec. 2001 [T-MTT])
- Inside Cover (Dec. 2001 [T-MTT])
- Editors' Overview (Dec. 2001 [T-MTT])
- IMS2001 - The microwave odyssey accomplished (Dec. 2001 [T-MTT])
- The 2001 IMS technical program (Dec. 2001 [T-MTT])
- 2001 MTT-S awards (Dec. 2001 [T-MTT])
- Low-frequency dispersion features of a new complex mode for a periodic strip grating on a grounded dielectric slab (Dec. 2001 [T-MTT])
- High-frequency leaky-mode excitation on a microstrip line
- Spurious radiation from a practical source on a covered microstrip line
- MoM/BI-RME analysis of boxed MMICs with arbitrarily shaped metallizations

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Papers by Issue

- A 3-D integral equation-based approach to the analysis of real-life MMICs application to microelectromechanical systems
- Envelope-finite-element (EVFE) technique - a more efficient time-domain scheme
- Fundamental gridding-related dispersion effects in multiresolution time-domain schemes (Dec. 2001 [T-MTT])
- Electromagnetic and semiconductor device simulation using interpolating wavelets
- Efficient FDTD modeling of irises/slots in microwave structures and its application to the design of combline filters
- Time-domain optical response of an electrooptic modulator using FDTD (Dec. 2001 [T-MTT])
- A robust algorithm for automatic development of neural-network models for microwave applications (Dec. 2001 [T-MTT])
- Efficient sensitivity analysis of lossy multiconductor transmission lines with nonlinear terminations (Dec. 2001 [T-MTT])

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Papers by Issue

- An extrinsic-inductance independent approach for direct extraction of HBT intrinsic circuit parameters (Dec. 2001 [T-MTT])
- Analysis of CDMA signal spectral regrowth and waveform quality (Dec. 2001 [T-MTT])
- Investigation into intermodulation distortion in HEMTs using a quasi-2-D physical model
- Novel lumped-element uniplanar transitions
- Sandwich-type ferromagnetic RF integrated inductor (Dec. 2001 [T-MTT])
- Miniature low-loss CPW periodic structures for filter applications
- Chip-type LTCC-MLC baluns using the stepped impedance method
- Design of CT and CQ filters using approximation and optimization (Dec. 2001 [T-MTT])
- Zolotarev bandpass filters (Dec. 2001 [T-MTT])

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- Bandpass filters using dual-mode and quad-mode Mobius resonators
- Small filters based on slotted cylindrical-ring resonators (Dec. 2001 [T-MTT])
- Integration of optimized low-pass filters in a bandpass filter for out-of-band improvement (Dec. 2001 [T-MTT])
- Full-wave analysis of coupling between combline resonators and its application to combline filters with canonical configurations
- Low-loss analog and digital micromachined impedance tuners at the Ka-band
- Simplified method for measurements and calculations of coupling coefficients and Q/sub 0/ factor of high-temperature superconducting dielectric resonators
- Microwave noise and power performance of metamorphic InP heterojunction bipolar transistors (Dec. 2001 [T-MTT])
- Study of self-heating effects, temperature-dependent modeling, and pulsed load-pull measurements on GaN HEMTs

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- Tunable active filters having multilayer structure using LTCC (Dec. 2001 [T-MTT])
- Using a negative capacitance to increase the tuning range of a varactor diode in MMIC technology (Dec. 2001 [T-MTT])
- A 60-GHz-band planar dielectric waveguide filter for flip-chip modules (Dec. 2001 [T-MTT])
- A highly linear single balanced mixer based on heterojunction interband tunneling diode (Dec. 2001 [T-MTT])
- An ultra-broad-band reflection-type phase-shifter MMIC with series and parallel LC circuits
- High-isolation series-shunt FET SPDT switch with a capacitor canceling FET parasitic inductance
- K-band receiver front-ends in a GaAs metamorphic HEMT process
- Variable-gain power amplifier for mobile WCDMA applications (Dec. 2001 [T-MTT])

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- An extended Doherty amplifier with high efficiency over a wide power range (Dec. 2001 [T-MTT])
- Current-mode class-D power amplifiers for high-efficiency RF applications (Dec. 2001 [T-MTT])
- High-power broad-band AlGaN/GaN HEMT MMICs on SiC substrates (Dec. 2001 [T-MTT])
- New design method of uniform and nonuniform distributed power amplifiers
- X-band MMIC power amplifier with an on-chip temperature-compensation circuit (Dec. 2001 [T-MTT])
- Gain/phase imbalance-minimization techniques for LINC transmitters
- A new direct millimeter-wave six-port receiver (Dec. 2001 [T-MTT])
- Simultaneous measurements of electric and thermal fields utilizing an electrooptic semiconductor probe
- Automated filter tuning using generalized low-pass prototype networks and gradient-based parameter extraction

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- Power absorption and temperature elevations induced in the human head by a dual-band monopole-helix antenna phone
- New phase shifters and phased antenna array designs based on ferroelectric materials and CTS technologies (Dec. 2001 [T-MTT])
- A W-band overmoded-waveguide oscillator with Gunn diodes
- Fully integrated automotive radar sensor with versatile resolution (Dec. 2001 [T-MTT])
- An in-circuit noncontacting measurement method for S-parameters and power in planar circuits
- Characteristic impedance extraction using calibration comparison
- Information for Authors (Dec. 2001 [T-MTT])
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Papers by Issue

Jan. 2002, Part I [T-MTT] (Mini-Special Issue on 1999 International Microwave and Optoelectronics Conference (IMOC'99))

- Table of Contents (Jan. 2002, Part I [T-MTT])
- Inside Cover (Jan. 2002, Part I [T-MTT])
- Guest editors' overview (Jan. 2002, Part I [T-MTT])
- GaN-based high electron-mobility transistors for microwave and RF control applications
- Design and fabrication of SiO/sub 2//Si/sub 3/N/sub 4/ integrated-optics waveguides on silicon substrates
- Security system for optical communication signals with fiber Bragg gratings
- A circuit-fed tile-approach configuration for millimeter-wave spatial power combining
- A dynamic model for printed apertures in anisotropic stripline structures

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Papers by Issue

- Theoretical investigation of compact microstrip resonators with stubs for patch antennas
- Split-field and anisotropic-medium PML-FDTD implementations for inhomogeneous media
- An innovative fast powerful method for tackling electromagnetic eigenvalue problems for multistrip transmission lines
- Characteristics of rain fading on Ka-band satellite-earth links in a Pacific maritime climate
- A generalized solution for diversity combining techniques in fading channels
- Monolithic transistor SPST switch for L-band
- A new model for enhancement-mode power pHEMT
- High-speed MSM/HEMT and p-i-n/HEMT monolithic photoreceivers
- Barrier enhancement mechanisms in heterodimensional contacts and their effect on current transport

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Papers by Issue

- Scattering by FSS on anisotropic substrate for TE and TM excitation
- Carrier reuse with gain compression and feed-forward semiconductor optical amplifiers
- A novel gold-coated multimode fiber sensor
- System impact of the physical length of unapodized chirped fiber Bragg gratings on dispersion compensation
- Evolution of leaky modes on printed-circuit lines
- Analysis and optimization of a phase shifter controlled by a piezoelectric transducer
- Dyadic Green's function modifications for obtaining attenuation in microstrip transmission layered structures with complex media
- Active microwave imaging. I. 2-D forward and inverse scattering methods
- On the effect of IF power nulls in Schottky diode harmonic mixers

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- Experimental confirmation of the dynamics of coupled-oscillator arrays and implications for angle-based modulation
- A miniaturized MMIC analog phase shifter using two quarter-wave-length transmission lines
- Method for the calculation of mutual coupling between discontinuities in planar circuits
- Design considerations of engraved NRD guide for millimeter-wave integrated circuits
- A simple method to design wide-band electronically tunable combline filters
- Compact monolithic integrated resistive mixers with low distortion for HIPERLAN
- Investigation of the longitudinal multiconductor transmission line functions for symmetric coupled-microstrip systems
- Analysis of the coaxial helical-groove slow-wave structure
- Phase-locked-loop control of active microstrip patch antennas

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- Efficient optical control of millimeter waves in a slot line on semiconductor plasma substrate
- A completely integrated 1.9-GHz receiver front-end with monolithic image-reject filter and VCO
- The summation-by-parts algorithm-a new efficient technique for the rapid calculation of certain series arising in shielded planar structures
- Direct extraction of linear HBT-model parameters using nine analytical expression blocks
- A Z-transform-based absorbing boundary conditions for 3-D TLM-SCN method
- General oscillator characterization using linear open-loop S-parameters (Comments)
- General oscillator characterization using linear open-loop S-parameters (Authors' Reply)
- Improvement of third-order intermodulation product of rf and microwave amplifiers by injection (Corrections)
- Information for Authors (Jan. 2002, Part I [T-MTT])

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Jan. 2002, Part II [T-MTT] (Special Issue on Silicon-Based RF and Microwave Integrated Circuits)

- Table of Contents (Jan. 2002, Part II [T-MTT])
- Inside Cover (Jan. 2002, Part II [T-MTT])
- Guest Editorial (Jan. 2002, Part II [T-MTT])
- The silicon radio decade
- RF-SoC-expectations and required conditions
- RF system concepts for highly integrated RFICs for W-CDMA mobile radio terminals
- 5-GHz CMOS wireless LANs
- Low-voltage low-power CMOS-RF transceiver design
- Concurrent multiband low-noise amplifiers-theory, design, and applications
- Delta-sigma data conversion in wireless transceivers
- Distributed active transformer-a new power-combining and impedance-transformation technique

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- Differentially driven symmetric microstrip inductors
- An MOS transistor model for RF IC design valid in all regions of operation
- Modeling and analysis techniques for system-level architectural design of telecom front-ends
- 0.25-/spl mu/m BiCMOS receivers for normal and micro GSM900 and DCS 1800 base stations
- Substrate effects in monolithic RF transformers on silicon
- A physical frequency-dependent compact model for RF integrated inductors
- A study of parasitic effects of ESD protection on RF ICs
- A bond-wire inductor-MOS varactor VCO tunable from 1.8 to 2.4 GHz
- Interface Loss Mechanism of Millimeter-Wave Coplanar Waveguides on Silicon
- Information for Authors (Jan. 2002, Part II [T-MTT])

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- Table of Contents (Feb. 2002 [T-MTT])
- Inside Cover (Feb. 2002 [T-MTT])
- Photo-injection p-i-n diode switch for high-power RF switching
- An accurate on-wafer deembedding technique with application to HBT devices characterization
- Millimeter-wave FET modeling using on-wafer measurements and EM simulation
- A fast finite-element-based field optimizer using analytically calculated gradients
- Complete location of poles for thick lossy grounded dielectric slab
- New predistortion linearizer using low-frequency even-order intermodulation components
- Equivalent lumped elements G, L, C, and unloaded Q's of closed- and open-loop ring resonators

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- Direct extraction of FET noise models from noise figure measurements
- Novel modal analysis of a circular-to-rectangular waveguide T-junction and its application to design of circular waveguide dual-mode filters
- Microwave properties of low-loss polymers at cryogenic temperatures
- A compact CPW-based single-layer injection-locked active antenna for array applications
- A high-power Ka-band quasi-optical amplifier array
- Full-wave high-order FEM model for lossy anisotropic waveguides
- Multiresolution time-domain (MRTD) adaptive schemes using arbitrary resolutions of wavelets
- High-gain meanderless slot arrays on electrically thick substrates at millimeter-wave frequencies
- Direct parameter-extraction method for HBT small-signal model

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- Anisotropic permittivity and attenuation extraction from propagation constant measurements using an anisotropic full-wave Green's function solver for coplanar ferroelectric thin-film devices
- Characterization of finite-ground CPW reactive series-connected elements for innovative design of uniplanar M(H)MICs
- A new class of eigenfunction expansion methods for fast frequency-domain analysis of waveguides
- Simple technique for measuring source reflection coefficient while characterizing active devices
- Full-wave analysis and modeling of multiconductor transmission lines via 2-D-FDTD and signal-processing techniques
- On the line-integral formulation of mode-matching technique
- Improved automatic parameter extraction of InP-HBT small-signal equivalent circuits
- Comments on representation of surface leaky waves on uniplanar transmission lines

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Mar. 2002 [T-MTT] (50th Anniversary Issue)

- Table of Contents (Mar. 2002 [T-MTT])
- Inside Cover (Mar. 2002 [T-MTT])
- Introduction (Mar. 2002 [T-MTT])
- Milestones of microwaves
- 50 years of the IEEE Microwave Theory and Techniques Society
- Role of radar in microwaves
- Electronic warfare systems
- The global positioning system
- Direct-sequence spread-spectrum communications for multipath channels
- Propagation prediction models for wireless communication systems
- Integrated automotive sensors
- Phased arrays - part 1: theory and architectures

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- Phased arrays-part II: implementations, applications, and future trends
- Digital microwave receiver technology
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- Ferrite devices and materials
- Microwave acoustic materials, devices, and applications
- Microwave superconductivity
- Microwave solid-state active devices
- The early history of the high electron mobility transistor (HEMT)
- Design of microwave filters
- Microwave filters-applications and technology
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- Transmit/receive modules
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- Microwave and millimeter-wave integrated circuits
- MEMS and Si micromachined circuits for high-frequency applications
- 50 years development of the microwave mixer for heterodyne reception
- Microwave photonics
- HF, VHF, and UHF systems and technology
- Digital signal processing - up to microwave frequencies
- Terahertz technology
- Quasi-optical and spatial power combining
- Active integrated antennas (Mar. 2002 [T-MTT])
- Microwave underground propagation and detection
- Biological effects of radiofrequency/microwave radiation
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- Microwave instrumentation for radio astronomy

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- Computer-aided design of RF and microwave circuits and systems
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- Microwave industry outlook - overview
- Microwave industry outlook - microwaves for telecommunication systems
- Microwave industry outlook - defense applications
- Microwave industry outlook - who will develop the wireless communication products of the 21st century?
- Microwave industry outlook - wireless communications in healthcare
- Microwaves in the asia-pacific region
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- Full-wave design and optimization of circular waveguide polarizers with elliptical irises
- Large-signal modeling and characterization of high-current effects in InGaP/GaAs HBTs
- Attenuation characteristics in confocal annular elliptic waveguides and resonators
- A high-power and high-gain X-band Si/SiGe/Si heterojunction bipolar transistor
- A fast noise and Z-parameter transformations between common emitter and common base InP DHBT
- Wide-band equal-ripple filters in nonuniform transmission lines
- Analysis of balanced active doubler for broad-band operation - the frequency-tuning concept

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- Device-level simulation of wave propagation along metal-insulator-semiconductor interconnects
- Computer-aided diagnosis and tuning of cascaded coupled resonators filters
- Asymmetric ring-hybrid phase shifters and attenuators
- Analysis of the numerical dispersion of the 2D alternating-direction implicit FDTD method
- Application of the SSOR preconditioned CG algorithm to the vector FEM for 3D full-wave analysis of electromagnetic-field boundary-value problems
- Single-MMIC four-channel transmitter module for multichannel RF/optical subcarrier multiplexed communications applications
- A genetic algorithm for the evaluation of material parameters of compound multilayered structures
- A novel drain current I-V model for MESFET
- An accurate photonic capacitance model for GaAs MESFETs

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- Electromagnetic scattering by metallic holes and its applications in microwave circuit design
- Field-extracted lumped-element models of coplanar stripline circuits and discontinuities for accurate radiofrequency design and optimization
- A dual-plane comb-line filter having plural attenuation poles
- A new hybrid mode-matching/numerical method for the analysis of arbitrarily shaped inductive obstacles and discontinuities in rectangular waveguides
- A balanced FET FMCW radar transceiver with improved AM noise performance
- A microwave gyro amplifier with a ferroelectric cathode
- A novel tap input coupling structure for a narrow bandpass filter using TM/sub 010/ mode of a microstrip circular-disk resonator
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- Analytical description of metal loss in finite-difference transmission-line analysis
- Calculated and measured characteristics of a microstrip line fabricated on a Y-type hexaferrite substrate
- Coplanar stripline resonators modeling and applications to filters
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- Trefftz finite elements for electromagnetics
- Dual-mode quasi-elliptic-function bandpass filters using ring resonators with enhanced-coupling tuning stubs
- Modeling microwave and hybrid heating processes including heat radiation effects
- Multioctave spatial power combining in oversized coaxial waveguide
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- Frequency stabilization of power-combining grid oscillator arrays
- Generation of a wide-band electromagnetic response through a Laguerre expansion using early-time and low-frequency data
- Properties of guided modes on open structures near the cutoff region using a new version of complex effective dielectric constant
- Spatial optical beam-forming network for receiving-mode multibeam array antenna - proposal and experiment
- New wide-band DC-block cymbal bandpass filter

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- A novel common-gate mixer for wireless applications
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- An inverse scattering technique for microwave imaging of binary objects
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- Efficient and accurate modeling of planar anisotropic microwave structures by the method of lines
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- Coupled-mode design of ferrite-loaded coupled-microstrip-lines section
- The characteristics of microwave melting of frozen packed beds using a rectangular waveguide

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- A revision of cascade synthesis theory covering cross-coupled filters
- Intermodulation analysis of dual-gate FET mixers
- New closed-form Green's functions for microstrip structures - theory and results
- RF electro-thermal modeling of LDMOSFETs for power-amplifier design
- On the use of vias in conductor-backed coplanar circuits

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- Artificial-line-division distributed ICs with 0.1-/spl mu/m-gate-length GaAs MESFET and three-dimensional transmission lines
- Excitation of a parallel-plate dielectric waveguide using a coaxial probe-basic characteristics and experiments
- Scattering and absorption by thin metal wires in rectangular waveguide-FDTD simulation and physical experiments
- Efficient electromagnetic modeling of three-dimensional multilayer microstrip antennas and circuits
- Radiation and leakage characteristics of transverse slot in NRD-guide operating in LSE/sub 00/ mode
- Modification of Marcatili's method for the calculation of anisotropic rectangular dielectric waveguides

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- Noise model of InP-InGaAs SHBTs for RF circuit design
- Novel configurations of planar multilayer magic-T using microstrip-slotline transitions
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- Slow-wave bandpass filters using ring or stepped-impedance hairpin resonators
- Theoretical and experimental study of amplifier linearization based on harmonic and baseband signal injection technique
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- Nonthermal effects of extremely high-frequency microwaves on chromatin conformation in cells in vitro-dependence on physical, physiological, and genetic factors (Authors' Reply)
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- 5.8-GHz circularly polarized rectifying antenna for wireless microwave power transmission
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- Accuracy control in the optimization of microwave devices by finite-element methods

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- A novel amplifying antenna array using patch-antenna couplers-design and measurement
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- Hierarchical multilevel potential preconditioner for fast finite-element analysis of microwave devices

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- Electric-magnetic-electric slow-wave microstrip line and bandpass filter of compressed size
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- Analysis of transient interaction of electromagnetic pulse with an air layer in a dielectric medium using wavelet-based implicit TDIE formulation
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- The reentrant wide-band directional filter

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- Evolutionary generation of microwave line-segment circuits by genetic algorithms
- RF and IF ports matching circuit synthesis for a simultaneous conjugate-matched mixer using quasi-linear analysis
- A vertically integrated micromachined filter
- Low-loss compact Butler matrix for a microstrip antenna
- Probe-tone S-parameter measurements
- Measurement of a filter using a power detector

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- Microstrip Transmission Lines on High Dielectric Constant Substrates for Hybrid Microwave Integrated Circuits
- Microstrip Circuitry for Integrated Transistor Amplifiers
- Microstrip Hybrid Couplers and Their Integration Into Balanced Mixers at X and K-Bands
- Lumped Elements in Microwave Integrated Circuits (1967 [MWSYM])
- All Garnet Microstrip Circulators for Integrated Circuits
- A Thin Film X-Band Varactor Quadrupler (1967 [MWSYM])
- Computer Analysis of Microwave Integrated Switches
- Recent Advances in Bulk Semiconductor Microwave Devices in Japan
- Status and Future of IMPATTS

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Papers by Issue

- Series Stacked Varactors for High Power, High Frequency Applications
- Iterative Synthesis of Varactor-Multiplier Microwave Networks and a Doubler with 0.17 Watt Output at 47 GHz
- YIG Tuned and Varactor Tuned L-Band Transistor Oscillator
- Frequency Modulation of Avalanche Transit Time Oscillators (1967 [MWSYM])
- A High Speed Binary Pulse Regenerator in Microwave Frequencies
- Microwave Propagation and Faraday Effect in a Solid State Plasma Waveguide
- Varactor Linear Microwave Phase Modulator
- A Subnanosecond X-Band Pulse Modulator
- High Power, Octave Bandwidth, SPDT Microwave Switches
- High Power Pin Diode Limiting
- Ferroelectric Phase Shifters
- Plasma Varactor X-Band Phase Shifters

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Papers by Issue

- A Multikilowatt X Band Nanosecond Source (1967 [MWSYM])
- Realization of Microwave Circuit Functions Using Acoustic Waves
- Current Status of Microwave Delay Lines
- Broadband, Fixed Tuned, Acoustic Delay Lines at L and S Band Frequencies
- Frequency Modulation and Translation with Magnetoelastic Waves in YIG
- Two-Port UHF Pulse Compression Via Magnetostatic Waves in YIG Rods
- Wideband Pulse Compression Using Magnetoelastic Waves in YIG Rods
- Index of Authors (1967 [MWSYM])

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Papers by Issue

1968 [MWSYM]

- Front Cover (1968 [MWSYM])
- Digest and Technical Program, 1968 G-MTT International Microwave Symposium
- Non-Minimum-Phase Microwave Filters (1968 [MWSYM])
- Multi-Octave Bandwidth Microwave Mixer Circuits
- A Wideband Stripline Matched Power Divider
- The Calculation of TEM-, TE- and TM-Waves in Shielded Strip Transmission Lines
- Analysis and Synthesis of Waveguide Multi-Aperture Directional Couplers (1968 [MWSYM])
- An Investigation of Sharp Discontinuities in Rectangular Waveguides by Ray Theory
- A New Finite-Difference Technique for Higher-Order Modes in Arbitrarily Shaped Waveguides
- Network Integration Approaches for Multiple-Diode High Power Microwave Generation

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Papers by Issue

- Power and Efficiency of IMPATT Oscillators
- Circuit Techniques for the Noise Reduction and Frequency Stabilization of Avalanche Diode Oscillators
- Microwave Integrated IMPATT Diode Radiator
- Gunn Oscillator as a Frequency Memory Device
- Ultra-High Speed Diode Switch for 50 GHz Band Utilizing Avalanche Breakdown of Varactor Diodes (1968 [MWSYM])
- Feed Back Stabilization and Noise Reduction in Solid State Multiplier Chains
- Recent Advances in Microwave Integrated Circuits
- Slot Line - An Alternative Transmission Medium for Integrated Circuits
- Frequency Dependent Behavior of Microstrip
- Normal Mode Impedances of a Coupled Pair of Microstrip Transmission Lines
- Analysis and Experimental Evaluation of Distributed Overlay Structures in Microwave Integrated Circuits

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Papers by Issue

- X-Band Integrated Circuit Mixer with Reactively Terminated Image (1968 [MWSYM])
- An Integrated Microwave FM Discriminator
- X Band Integrated Diode Phase Shifters
- S-Band Integrated Parametric Amplifier Having both Flat Gain and Linear Phase Response
- A K/sub a/ Band Paramp Using Planar Varactors Yields a Noise Figure of Less Than 3 dB
- A Technique for the Rapid Calculation of Distortion Effects in Varactor Parametric Amplifiers
- An Evaluation of Point Contact Tunnel Diodes as Microwave Circuit Elements
- The Transistor, a Microwave Filter Element
- Bulk Semiconductor Switches and Phase Shifters
- Microwave Phase Modulation Using Frequency Multipliers
- Operational S-Band Traveling-Wave Maser System in 15°K Closed-Cycle Refrigerator

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Papers by Issue

- Propagation in Longitudinally-Magnetized Ferrite Loaded Waveguide (1968 [MWSYM])
- An Improved E-Plane Waveguide Circulator
- The Use of Composite Junctions in the Design of High Power Stripline Circulators
- Recent Advances in Microstrip Circulators
- A Design Theory for Reggia-Spencer Reciprocal Ferrite Phase Shifters
- A 500 kW X-Band Air-Cooled Ferrite Latching Switch (1968 [MWSYM])
- A Waveguide Reciprocal Latching Ferrite Phase Shifter
- Magnetically Tunable Microstrip Filter Structures
- Ultrasonic Waveguide Systems for Surface Waves
- State of the Art in Microwave Acoustic Delay Devices
- Performance of Ultra-Bandwidth YIG Pulse Compression Networks
- Birefringent Filter for Millimeter Waves (1968 [MWSYM])

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- Low-Pass, Quasi-Optical Filters for Oversized or Focused-Beam Waveguide Applications (1968 [MWSYM])
- Plane Waveguide Mode Effects in the Visible Spectrum
- Dielectric Waveguide for Infrared Wavelengths
- Index of Authors (1968 [MWSYM])
- Index to Institutional Listings (1968 [MWSYM])
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Papers by Issue

1969 [MWSYM]

- Front Cover (1969 [MWSYM])
- Foreword (1969 [MWSYM])
- Program (1969 [MWSYM])
- Introductory Session, 1969 G-MTT International Microwave Symposium
- Wave Propagation in Microstrip Transmission Lines
- Interdigitated Strip-Line Quadrature Hybrid
- Filtering, Frequency Multiplexing, and Other Microwave Applications with Inverted-Common-Collector Transistor Circuits
- A 3:1 Bandwidth Low Noise Mixer
- A Hybrid Integrated L-Band Digital Phase Shifter
- 4GHz Multi-Stage Transistor Amplifier
- Session MAM-II -- Precision Measurements and Components

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Papers by Issue

- Measurements on the Properties of Microwave Integrated Circuits
- Dependence of Stripline Performance on Dielectric Properties and Packaging Techniques
- Techniques for Determining the Microwave Properties of Thermally Degraded Spacecraft Heat Shield Materials
- The Rotary Slot Attenuator
- Nanosecond Measurement of Microwave Reflection Coefficients and Properties of Materials
- Computer-Aided Microwave Impedance Measurements (1969 [MWSYM])
- Session MPM-I -- Ferrite Components
- Four-Port YIG Filter
- VHF- and UHF-Band Stacked-Junction Circulators
- A Low-Cost Latching Ferrite Phaser Fabrication Technique
- Review of Planar Ferrite Devices
- Measurement of Slot Line Characteristics

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- Application of Slot Line to Miniature Ferrite Devices
- Coplanar Waveguide, A Surface Strip Transmission Line Suitable for Nonreciprocal Gyromagnetic Device Applications (1969 [MWSYM])
- A Thin Film Lumped Element Circulator
- An Investigation of Six-Port Phase-Type Circulators and Switches
- Session MPM-II -- Solid-State Circuits and Devices
- A New Technique for Designing Highly Stable High Efficiency Varactor Multiplier Chains
- The Design of Broadband Frequency Doublers Using Charge-Storage Diodes (1969 [MWSYM])
- A Study of High Power Pulsed LSA GaAs Devices
- An All-Transistor, 1-Kilowatt, High-Gain, UHF Power Amplifier
- A Ten Megawatt Radar Duplexer
- Microwave Energy Applications, Non-Communication (Panel Discussion)

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Papers by Issue

- Techniques for Fabrication and Production of Microwave Integrated Circuits (Panel Discussion)
- Noise in Solid State Devices and Systems (Panel Discussion)
- Session TAM-I -- Gunn Effect Devices
- The Capabilities and State of the Art of Gunn and LSA Devices
- Theoretical and Experimental Study of the Quenched-Domain Mode Gunn-Effect Oscillator
- The YIG-Tuned Gunn Oscillator, its Potentials and Problems
- The Effect of Temperature on L S A Oscillations Between 26-40 GHz.
- CW Gunn Diodes in Composite Structure
- X-Band Distributed Array Gunn Effect Transmitter
- Amplitude and Frequency Modulation of CW Gunn Oscillators
- Session TAM-II -- Millimeter Wave Components

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- Detection of Millimeter-to-Infrared Radiation
- High Frequency Light Modulators
- Infrared Parametric Amplification Using a Quasi-Microwave Approach to Phase-Matching
- Millimeter- and Submillimeter-Wave Detection by Paramagnetic Materials
- Recent Developments in Millimeter Wave Components
- A New Millimeter-Wave Band-Splitting Filter Using Figure-8 Hybrids
- Quasi-Optical Low-Pass Filters which Attenuate by Absorption (1969 [MWSYM])
- A Perturbation Theory for Dielectric and Optical Waveguides with Application to the Launching of Surface Modes
- Session TPM-I -- Avalanche Diodes
- Circuits for High Efficiency Avalanche Diode Oscillators (1969 [MWSYM])
- High-Efficiency Avalanche Resonance Pumped Amplification

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Papers by Issue

- Microstrip High-Power L-Band Avalanche-Diode Oscillator
- A One Watt CW Avalanche Diode Source or Power Amplifier
- Computer-Aided Small-Signal Characterization of IMPATT Diodes (1969 [MWSYM])
- X-Band Solid-State Oscillator and Mixer
- Broadband Negative Resistance Oscillator Circuits
- Session TPM-II -- Passive Components
- Synthesis of High-Power Harmonic Rejection Waveguide Filters
- Predistorted Waveguide Filters for Use in Communications Systems
- Narrow Bandwidth Elliptic-Function Filters (1969 [MWSYM])
- The Stepped Cavity Coupled Elliptic Filter
- Design of Commensurate Transmission Line Circuits (1969 [MWSYM])
- Some Magic Tees with 2 to 3 Octaves Bandwidth

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Papers by Issue

- An Asymmetric Non-Monotonic Stripline Magic-T
- The Even and Odd Mode Capacitance Parameters for Coupled Lines in Suspended Substrate (1969 [MWSYM])
- Coupled Transmission Line Networks in an Inhomogeneous Dielectric Medium (1969 [MWSYM])
- Session WAM-I -- Microwave Acoustics
- Acoustic Wave Analysis, Using Microwave Concepts
- A Review of the State-of-the-Art of Surface Acoustic Wave Technology
- Acoustic Surface-Waves and Rayleigh-Type Spin-Waves at Microwave Frequencies
- Room Temperature Electron Paramagnetic Resonance (EPR) Signal Storage
- Active Impedance Matching for Microwave Acoustic Delay Lines
- Laser-Acoustic Microwave Signal Processing
- Propagating Magnetic Waves in Epitaxial YIG

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- Session WAM-II -- Computer-Oriented Microwave Techniques
- Optimization of Microwave Networks by Razor Search (1969 [MWSYM])
- Dominant Pole Synthesis of Transmission Line Networks (1969 [MWSYM])
- Computer Aided Design of Broadband and Low-Noise Microwave Amplifiers
- Computer-Aided Design of 3-Port Waveguide Junction Circulators
- New Directions in Computer Field Analysis
- A Comparison of Two Numerical Computer Methods for Solving TEM Field Problems
- Intermodal Coupling at the Junction Between a Straight and a Continuously Curved Waveguide of Rectangular Cross Section
- Computer Aided Solution of Vector Field Boundary Value Problems in Three Dimensions

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Papers by Issue

- Session WPM-I -- Microwave Integrated Circuits II
- Integrated S-Band Parametric Amplifier
- Integrated Parametric Amplifiers with IMPATT-Diode Pumping
- A 1.8 to 4.2 GHz YIG Tuned Transistor Oscillator with a Wideband Buffer Amplifier
- A Hybrid Integrated Transistor Amplifier for High-Volume Production
- 200 Watt Solid State UHF Amplifier
- A Hybrid Integrated Circuit Microwave Telemetry Transmitter and Command Receiver
- Session WPM-II -- Millimeter Wave Systems
- Comparison of Theoretical and Experimental Values of Phase Constant for Dipole Mode Surface Wave Propagation in Open Gyromagnetic Ferrite Rod
- Optical Display of Millimeter-Wavelength Radiometric Maps with Good Spatial, Temporal, and Temperature Resolutions
- Near Earth Millimeter Wave Radar and Radiometry

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Papers by Issue

- A 94-GHz Radar for Space Object Identification (1969 [MWSYM])
- Millimeter-Wave Systems Applications
- Millimeter Radar Investigation
- Index of Authors (1969 [MWSYM])
- Committees (1969 [MWSYM])
- Membership Application (1969 [MWSYM])
- Back Cover (1969 [MWSYM])
- Program Supplement, Late News Items, 1969 G-MTT International Microwave Symposium

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Papers by Issue

1970 [MWSYM]

- Front Cover (1970 [MWSYM])
- Foreword (1970 [MWSYM])
- Program (1970 [MWSYM])
- Session MAM-I -- Microwave Integrated Circuits I
- Thin Film Lumped Constant Microwave Integrated Filter Structures
- Interdigital Capacitors for Use in Lumped-Element Microwave Integrated Circuits
- Lumped-Elements in Microwave Integrated Circuits in the 1-12 GHz Range
- The Application of Dielectric Resonators to Microwave Integrated Circuits
- Dielectric Resonators as Microstrip Circuit Elements
- A Parallel Coupled Microstrip Filter Design Procedure
- A High Directivity Microstrip Coupler Technique

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- Session MAM-II -- Diffraction
- The Diffraction of Electromagnetic Waves by Dielectric Steps in Waveguides (1970 [MWSYM])
- Ray-Optical Diffraction Coefficients for Waveguide Discontinuity Problems
- On the Restricted Validity of Point-Matching Techniques (1970 [MWSYM])
- A Focused Aperture Millimeter Wave Transmission Line
- Session MAM-III -- Late News Items
- Session MPM-I -- Microwave Filters and Couplers
- Microwave Applications of the Bridged T
- Subminiature Microwave Active Filter Manifolds
- Small Elliptic-Function Lowpass Filters
- Zolotarev Functions, A New Distributed Prototype Filter, and the Design of Mixed Lumped/Distributed Components
- Synthesis of Multi-Section Networks Using the W-Plane

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Papers by Issue

- Compact Multiplexing Networks for L-Band through K/sub U/-Band
- A Four-Cavity Elliptic Waveguide Filter (1970 [MWSYM])
- Session MPM-II -- Millimeter Waves
- An 18 GHz Double-Tuned Parametric Amplifier (1970 [MWSYM])
- K-Band, Cryogenically Cooled, Wideband Nondegenerate Parametric Amplifier
- Parametric Amplification of Millimeter and Submillimeter Waves: Results, Potentials and Limitations
- Millimeter-Wave Mode Conversion by a Solid-State Magnetoplasma
- A PIN Diode for mm-Wave Digital Modulation
- Session MPM-III -- Microwave Imaging
- EMC Technology, Inc. (Advertisement) (1970 [MWSYM])
- Microwave Holography
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Papers by Issue

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- Session TAM-I -- Computer-Oriented Microwave Practices
- Current Trends in Automated Network Design Optimization
- Computation of Sensitivities for Optimal Design of Microwave Networks
- An Application of Razor Search to Semi-Lumped Networks
- Computer-Aided Design Optimization of Broadband Stripline Y-Circulators
- EHPOL: An Analysis Program for the Arbitrarily Shaped Waveguide
- Finite Element Solution of Dielectric Loaded Waveguides
- A Finite Difference, First-Order Perturbation Method for Attenuation in Arbitrarily Shaped Waveguides
- Session TAM-II -- Oscillator Noise and Stabilization
- Noise Properties and Stabilization of Gunn and Avalanche Diode Oscillators and Amplifiers

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- Circuit Design for Minimizing the FM Noise of a CW Gunn Oscillator
- Feedback Control Analysis of Microwave Oscillator Stabilization with a Transmission Cavity
- Highly Stabilized Half-Watt IMPATT Oscillator (1970 [MWSYM])
- Cavity Stabilized X-Band Gunn Oscillator (1970 [MWSYM])
- Measurement of the Noise in a Linear Two-Port Device
- Session TPM -- Microwave Integrated Circuits II
- A New Class of Microstrip Directional Couplers
- Slot Line Filters
- Recent Developments in Microwave Slot-Line Mixers and Frequency Multipliers
- Wideband X-Band Microstrip Image Rejection Balanced Mixer
- Low Noise Microstrip Mixer on a Plastic Substrate

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Papers by Issue

- Beam Lead Tunnel Diode Amplifiers on Microstrip (1970 [MWSYM])
- A Microminiature Monoscan-Converter for Use in Tracking Antenna Systems
- The Microwave Engineer and the Computer (Panel Discussion)
- Applications of Microwave Integrated Circuits (Panel Discussion)
- Session WAM-I -- Gunn Effect Devices
- Progress in Gunn Devices (No Text)
- High Power Gunn Oscillator Diodes on Type-IIA Diamond Heat Sinks
- Linear Microwave Solid State Transferred Electron Power Amplifiers with a Large Gain-Bandwidth Product
- Direct Observation of LSA-Relaxation Oscillations in Bulk Gallium Arsenide Diodes
- Pin Diode Single-Sideband Modulator
- Session WAM-II -- Guided Waves and Stripline

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Papers by Issue

- General Constraints Upon Inhomogeneous Guided Wave Structures
- Possible New Applications of Periodic Linear Arrays
- Launching of the HE/sub 11/ Surface Wave Mode by an Electric Dipole Imbedded in a Dielectric Rod
- A Dual-Channel Rotary Joint for High Average Power Operation (1970 [MWSYM])
- Phase Stable Ridged Waveguide
- Capacitance Matrix Data for Single, Double, and Triple Microstrip
- Transient Analysis of Lossless Coupled Transmission Lines in a Non-Homogeneous Dielectric Medium (1970 [MWSYM])
- A New Method for the Analysis of the Dispersion Characteristics of Microstrip Lines
- Application of Ferrite to Electromagnetic Wave Absorber and its Characteristics (1970 [MWSYM])
- Session WPM-I -- Avalanche Diodes
- GaAs IMPATT Diodes, Oscillators and Amplifiers

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Papers by Issue

- A One Watt CW, 20% Efficient X-Band Avalanche Diode Amplifier
- RF Current and Voltage Waveform Measurement of an Oscillating Avalanche Diode
- High Efficiency Solid State Microwave Amplifier Using TRAPATT Diodes
- Performance of Multiple-Epitaxial Avalanche Diodes at X and Ku Bands
- A Circuit Design for mm-Wave IMPATT Oscillators
- A New Microstrip Isolator and its Application to Distributed Diode Amplification
- Session WPM-II -- Microwave Acoustics I
- Microwave Surface Wave Delay Lines as Practical Signal Processing Components
- L-Band Acoustic Surface-Wave Tapped Delay Line
- The Effect of Beam Steering on the Design of Microwave Acoustic Surface Wave Devices

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- Side Lobe Suppression in Surface Wave Acoustic Dispersive Delay Lines
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- Survey of Ferrimagnetic Materials - State of the Art
- The Use of Manganese-Doped Iron Garnets and High Dielectric Constant Loading for Microwave Latching Ferrite Phasers
- Ferrite Microstrip Phase Shifters-Theory and Experiment
- A Dual-Mode Latching, Reciprocal Ferrite Phase Shifter (1970 [MWSYM])
- An X-Band Reciprocal Latching Faraday Rotator Phase Shifter
- An S-Band, Dual Mode Reciprocal Ferrite Phaser for Use at High Power Levels
- A 3-KW Microstrip and Waveguide Diode Phase Shifter at X-Band
- A High Power U. H. F. Diode Phase-Shifter

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- Session THAM-II -- Microwave Acoustics II
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- Theory of Rayleigh Wave Coupling Between Two Substrates by Means of a Solid Layer
- Distributed Components in Microwave Elastic Surface Wave Circuits
- Acoustic Surface Wave Directional Couplers
- Optical Studies of Surface Wave Refractive and Reflective Device Structures
- Surface Wave Grating Reflectors and Resonators
- Session THPM -- Ferrite Components - General
- The Compact Turnstile Circulator (1970 [MWSYM])
- A Compact Thin Film Lumped Element Circulator Using a Capacitor, Common to All Three Arms, for Broadbanding or Switching
- Identification of Spurious Responses in Waveguide Circulators (Abstract)

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Papers by Issue

- A Short-Slot Waveguide Latching Ferrite Switch (1970 [MWSYM])
- An Analysis of Nonreciprocal Microstrip
- Microwave Signal Processing by Amplified Ferrimagnetic Echo
- Bandpass and Bandsectioning Filters Using Epitaxial YIG Films
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Papers by Issue

1971 [MWSYM]

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- Program (1971 [MWSYM])
- Session I -- Filters and Couplers
- Technique for the Realization of Optimum Bandpass Filters
- A Graphical Method for the Design of Stepped Impedance Transformers
- Microwave, Doppler Invariant, Pulse Compression Filters
- The Virtues of Mixing Tandem and Cascade Coupler Connections
- Multi-Port Lattice-Type Hybrid Network
- Design of Hairpin-Line and Hybrid Hairpin-Parallel-Coupled-Line Filters
- Session II -- Applications of Microwave Integrated Circuits

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- An Integrated, X-Band, Image and Sum Frequency Enhanced Mixer with 1 GHz IF
- Integrated Mixer for 18 and 26 GHz
- A 90 dB Microstrip Switch on a Plastic Substrate
- Miniature Multi-Kilowatt PIN Diode MIC Digital Phase Shifters
- Electronically Tuned Integrated X-Band Superheterodyne Receiver
- Alumina Sandwich Line Filters for High Performance Integrated Circuit Application
- Session III -- Transmission Lines and Measurements
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- Propagation in a Shielded Microslot with a Ferrite Substrate (1)
- Propagation in a Shielded Microslot with a Ferrite Substrate (2)
- The Ring-Loaded Corrugated Waveguide

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- Impedance Measurement of a Waveguide Mount
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- Design Data for Microwave Acoustic Surface Wave Devices
- Properties and Applications of the Acoustic Wave Junction Between Plated and Unplated Substrates
- An Electronically Variable Surface Acoustic Wave Phase Shifter
- Modified Equivalent Circuit Model for Ultrasonic Surface Wave Interdigital Transducers
- Acoustic Surface Wave Sequence Generators and Matched Filters with Adjustable Taps

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- Lithium Ferrites for Microwave Devices
- Review of Circulator Technology
- Stepped Ground Plane Circulator
- A New Concept for Broadbanding the Ferrite Substrate Circulator Based on Experimental Modal Analysis
- Theoretical and Practical Characteristics of a Broad Tuning Range Y.I.G. Sphere Circulator
- Session VI -- Avalanche Diodes
- High-Power, Low-Noise Avalanche Diode Oscillators
- Distributed Unidirectional Microwave Amplification

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- High-Power Microwave Amplifier Using Anti-Parallel Avalanche-Diode Pair (1971 [MWSYM])
- Second Harmonic Tuning Effects on IMPATT Diode Oscillator Noise Characteristics
- Reduction of FM Noise in Microwave Diode Oscillators by Cavity and Injection Stabilization
- A Cascaded-Impedance-Inverter Model of Wide-Band Frequency Triplers
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- Microwave Properties of Partially Magnetized Ferrites
- A New Reciprocal Phaser for Use at Millimeter Wavelengths
- An Accurate Analog Ferrite Phase Shifter
- The Application of Periodic Loading to Ferrite Phase Shifter Design (1971 [MWSYM])
- Ferrite Phase Shifters and Multi-Port Circulators in Microstrip and Stripline
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- X and Ku-Band Ferrite-Diode Limiters
- Session VIII -- Computer Oriented Microwave Practices
- The Application of the Theory of Equivalent Circuits to the Computer-Aided Design of Microwave Circuits
- Gradient Razor Search Method for Optimization
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- Working with Automatic Microwave Circuit Analysis Programs
- Computer-Aided Determination of Equivalent Circuits for Waveguide Discontinuities
- Computer-Aided Design of Parametric Amplifiers (1971 [MWSYM])
- Finite Element Techniques for the Solution of Poisson's Equation
- Session IX -- Student Paper
- Generation of Confined Spectrum Pulses Using an Absorption PIN Diode Modulator (1971 [MWSYM])

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Papers by Issue

- Session X -- Microwave Applications for the 70's
- Channel Multiplexer for a Millimeter Waveguide Transmission System
- State of Art in Microwave Sensors for Measuring Nonelectrical Quantities
- Status of the Technology and Applications of Free-Space Microwave Power Transmission
- Microwave Ice Thickness Sensor
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- Gunn Diode Impedance Measurements Using a Single-Tuned Oscillator
- Experimental and Computer Simulation Analysis of a Gunn Diode (1971 [MWSYM])
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- Multi-Parallel Operation of Gunn Diodes for High RF Power
- New Alarm Circuit Used for Injection Locking Oscillator of Microwave Communication Equipment

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- Broadband Diode Phase Shifters
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- Gigahertz Rate Counter Logic and Clock Generation Using High F/sub T/ Transistors
- Microwave Integrated Tunnel Diode Amplifiers for Broadband, High Performance Receivers (1971 [MWSYM])

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- A Mixer and Solid State L.O. for a 60 GHz Receiver
- Variable-Permittivity Artificial Dielectrics
- Late News Papers (Session X) and (Session XI)
- 1972 International GMTT Symposium (Announcement) (1971 [MWSYM])
- Microwave Prize Recipients and New Fellows (1971 [MWSYM])
- Committees (1971 [MWSYM])
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- Index, 1971 IEEE-GMTT International Microwave Symposium
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1972 [MWSYM]

- Front Cover (1972 [MWSYM])
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- Front End Noise Sources in Commercial Microwave Radio Relay Systems
- S-Band Radiometer Design for High Absolute Precision Measurement
- Spaceborne Hybrid MIC PIN Diode Radiometer Switch
- Spaceflight-Qualified Tunable C-Band Parametric Amplifier System
- 18 GHz Paramps with Both Liquid Helium and Room Temperature Operations and with Triple-Tuned Gain Characteristics
- Low Noise Microwave Receiving Systems on a 64 m Antenna

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- NBS Millimeter Wave Power Standards
- Automatic Rieke Diagram Drawing System
- Scattering Parameter Measurement Techniques in Microstrip
- An RF Time Domain Reflectometer Not in Real Time
- Microwave Measurements with Active Systems
- A Millimeter Wave Hot Load
- The Measurement of RF-Antenna Near Field Patterns Using Liquid Crystal Sensors
- Session 3 -- Solid-State Microwave Control Devices
- Diode Switching Topics
- A High Power UHF Microstrip Diode Phase Shifter
- A Lumped Element Diode Phase Shifter
- High Power Microstrip RF Switches
- An X-Band Paramp with 0.85 dB Noise Figure (Uncooled) and 500 MHz Bandwidth

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- High Burnout Gallium Arsenide Schottky Barrier Diodes
- Session 4 -- Waveguides- Techniques and Analysis
- Remarks on Variational Bounds for Waveguide Scattering
- Tapered Waveguide Transitions Between Arbitrary Cross Sections and Sizes
- A New Method for Solving Discontinuity Problems in Microstrip Lines
- Dispersion Characteristics and Field Structure of an Axially Magnetized Ferrite Loaded Rectangular Waveguide
- A Method for the Determination of All the Propagating Modes in a Loaded Waveguide Structure
- Analysis of a Tapered Circular Waveguide Using Spherical Modes
- Scattering from a Large Hole of Any Shape in a Multimode Waveguide
- Session 5 -- Microwave Acoustics
- Acoustic Surface Wave Analog Filters

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- Diode Structures for a Millimeter Wave Phase Shifter
- A Transferred-Electron Frequency Memorizer
- Octave Bandwidth High Speed Limiter with Uniform Suppression Characteristics

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- An Alignment Technique for Multiple Ball YIG Bandpass Filters Operating Over Multi-Octave Frequency Bands
- 14-GHz MIC 16-ns Delay Filter for Differentially Coherent QPSK Regenerative Repeater
- Improvement of Performances of Microstrip Structures by Equalization of Phase Velocities
- A Matched Coaxial-Radial Transmission Line Junction
- A Comparison of Four Overmoded Canonical Narrow Bandpass Filters at 12 GHz
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- Microwave GaAs FET Switching
- 1.6Gb/s 16-level Superposed APSK MODEM with Baseband Signal Processing Coherent Demodulator (1978 [MWSYM])
- An Integrated DQPSK Demodulator for 14-GHz Satellite Communications Applications

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- A Logic Module Using Transferred-Electron Logic Devices for Time-of-Arrival Determination of GHz Signals
- A Network Reduction Technique for Microstrip Three-Dimensional Problems
- Generalized Spectral Domain Method for Multi-Conductor Printed Lines and its Application to Tunable Suspended Microstrips (1978 [MWSYM])
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- Millimeter-Wave Microstrip Amplifier Using Indium Phosphide Gunn Diodes

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- The Stability of Magnetrons Under Short Pulse Conditions
- A Novel Approach to the Design of a High Power Automatic Impedance Measuring Scheme
- Mode Coupling and Power Transfer in a Coaxial Sector Waveguide with a Sector Angle Taper (1980 [MWSYM])
- Circular-Electric Mode Waveguide Couplers and Junctions for use in Gyrotron Traveling-Wave Amplifiers (1980 [MWSYM])
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- Closed-Form Green's Functions for General Sources and Stratified Media
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- Optimum termination networks for tightly coupled microstrip lines under random and deterministic excitations
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- Global electromagnetic analysis to help the conception of an active module
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- A 1-Watt, 8--14-GHz HBT Amplifier with >45% Peak Power-Added Efficiency

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- A Monolithic GaAs DC to 2-GHz Feedback Amplifier (Short Papers)
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- Bridging the Gap Between TLM and FDTD
- CAD of E-Plane Circuits with Field-Theory Based Lookup Tables and Discontinuity Models
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- 14-W GaN-based microwave power amplifiers
- 1-8-GHz GaN-based power amplifier using flip-chip bonding
- 3-9-GHz GaN-based microwave power amplifiers with L-C-R broad-band matching
- A 2-GHz Three-Stage AlInAs-GaInas-InP HEMT MMIC Low-Noise Amplifier
- A 30 GHz Monolithic Single Balanced Mixer with Integrated Dipole Receiving Element (1985 [MCS])
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- A Parameter Extraction Technique for Heterojunction Bipolar Transistors
- GaN microwave electronics
- High Performance V-Band Low Noise Amplifiers
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- A conformal finite difference time domain technique for modeling curved dielectric surfaces

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- A Finite Element Cavity Resonance Method for Waveguide and Microstrip Line Discontinuity Problems
- A Frequency-Dependent Coupled-Mode Analysis of Multiconductor Microstrip Lines with Application to VLSI Interconnection Problems (Short Papers)
- A hybrid technique combining the method of moments in the time domain and FDTD
- A Hybrid Yee Algorithm/Scalar-Wave Equation Approach
- A locally conformal finite-difference time-domain (FDTD) algorithm for modeling three-dimensional perfectly conducting objects
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- A Method for Measuring the Refractive Index Profile of Thin-Film Waveguides (Letters)
- A Method for Reducing Radiation Losses at Bends in Open Dielectric Structures
- A Modified Residue-Calculus Technique for Solving a Class of Boundary Value Problems Part I: Waveguide Discontinuities
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- A New Finite-Difference Time-Domain (FDTD) Algorithm for Efficient Field Computation in Resonantor Narrow-Band Structures
- A New Look at the Perfectly Matched Layer (PML) Concept for the Reflectionless Absorption of Electromagnetic Waves
- A New Method for Calculating the Capacitance of a Circular Disk for Microwave Integrated Circuits (Short Papers)
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- A New Technique for the Analysis of the Dispersion Characteristics of Microstrip Lines
- A nonuniform FDTD technique for efficient analysis of propagation characteristics of optical-fiber waveguides
- A Note on the Application of Edge-Elements for Modeling Three-Dimensional Inhomogeneously-Filled Cavities
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- A super absorbing boundary condition for the analysis of waveguide discontinuities with the finite-difference method (Comments)
- A Surface Integral Equation Method for the Finite Element Solution of Waveguide Discontinuity Problems (Short Papers)
- A systematic approach to the derivation of constitutive parameters of a perfectly matched absorber
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- An application of FDTD in studying the end effects of slotline and coplanar waveguide with anisotropic substrates
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- An Impedance Transformation Method for Finding the Load Impedance of a Two-Port Network
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- Analysis of a Thin Slot Discontinuity in the Reference Plane of a Microstrip Structure

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- Asymptotic Boundary Conditions for Finite Element Analysis of Three-Dimensional Transmission Line Discontinuities

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- Comparison and Evaluation of Boundary Conditions for the Absorption of Guided Waves in an FDTD Simulation
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- Estimation of Spurious Radiation from Microstrip Etches Using Closed-Form Green's Functions
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- High-isolation series-shunt FET SPDT switch with a capacitor canceling FET parasitic inductance
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- 40-W CW broad-band spatial power combiner using dense finline arrays
- A 120-W X-band spatially combined solid-state amplifier
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- Contributors (Jun. 1981, Part I [T-MTT])

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- Finite Element Analysis of MMIC Waveguide Structures with Anisotropic Substrates
- On the Accuracy of Perfectly Matched Layers Using a Finite Element Formulation
- The finite-element method for modeling circuits and interconnects for electronic packaging

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- Enhanced Through-Reflect-Line Characterization of Two-Port Measuring Systems Using Free-Space Capacitance Calculation (Short Papers)
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Pommier, V.

- Transversal filter using whispering gallery quarter cut resonators

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- Printed microwave couplers with thermal isolation

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- Efficient large-domain MoM solutions to electrically large practical EM problems
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- Low-noise monolithic Ku-band VCO using pseudomorphic HEMT technology
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- Design of Waveguide E-Plane Filters with All-Metal Inserts by Equal Ripple Optimization
- Filter topologies with minimum peak stored energy
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- A Rigorous Three Plane Mode-Matching Technique for Characterizing Waveguide T-Junctions, and its Application in Multiplexer Design
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