

Technical Committees

Computer-Oriented Microwave Practices

B. PERLMAN
RCA Labs.
Princeton, NJ 08540

Submillimeter-Wave Techniques

K. J. BUTTON
National Magnet Lab.
M.I.T.
Cambridge, MA 02139

Microwave and Millimeter-Wave Solid-State Devices

B. BERSON
HPA Div.
Hewlett-Packard
Palo Alto, CA 94304

Microwave Ferrites

F. J. ROSENBAUM
Dep. Elec. Eng.
Washington Univ.
St. Louis, MO 63130

Microwave Systems

J. B. HORTON
Valley Forge Space Center
General Electric Co.
Philadelphia, PA 19101

Microwave Network Theory

R. LEVY
11 Michigan Dr.
Natick, MA 01760

Microwave Acoustics

R. C. WILLIAMSON
M.I.T. Lincoln Labs.
Lexington, MA 02173

Microwave High Power

J. M. OSEPCHUCK
Raytheon Co.
20 Seyton St.
Waltham, MA 02154

Microwave Biological Effects

A. W. GUY
Bioengineering Center
Univ. Washington
Seattle, WA 98105

Microwave Low Noise

J. WHELAN
AIL-Cutler Hammer
Melville, NY 11746

Digital Microwave Systems

G. CHAO
Tektronix Inc. 50-273
P.O. Box 500
Beaverton, OR 97005

Optical Techniques

D. B. ANDERSON
Electron. Res. Div.
Rockwell International
Anaheim, CA 92803

Microwave and Millimeter-Wave Integrated Circuits

R. H. KNERR
Bell Labs.
Allentown, PA 18103

Microwave Measurements

E. L. KOMAREK
Nat. Bureau Standards
Section 272.5
Boulder, CO 80302

Microwave Field Theory

D. C. CHANG
Dep. Elec. Eng.
Univ. Colorado
Boulder, CO 80302

Technical Committee Coordinator

J. B. HORTON
General Electric Co.
U-2457, VFSC
P.O. Box 8555
Philadelphia, PA 19101

EDITORIAL BOARD

Editor

D. Parker

A. T. Adams
J. L. Allen
D. B. Anderson
J. R. Ashley
A. J. Bahr
J. W. Bandler
R. H. T. Bates
R. W. Beatty
H. Beneking
P. Bernardi
P. Bhartia
M. Brodwin
H. Bussey
K. S. Champlin
A. Calvin
S. B. Cohn
R. E. Collin
E. Cristal
W. R. Curtice
J. B. Davies
L. E. Davis
B. C. DeLoach
E. Denlinger
F. E. Gardiol
R. V. Garver
V. G. Gelnovatch
W. J. Getsinger
J. W. Gewartowski
A. I. Grayzel
A. W. Guy
U. Gysel
G. I. Haddad

M. A. K. Hamid
W. Harth
R. F. Harrington
G. L. Heiter
J. Helszajn
M. E. Hines
W. E. Hord
M. C. Horton
W. J. Ince
T. Itoh
P. Khan
R. H. Knerr
Y. Konishi
W. Kotyczka
J. G. Kretzschmar
K. Kurokawa
S. W. Lee
R. Levy
L. Lewin
N. Lipetz
T. Makimoto
D. Marcuse
D. Masse
G. L. Matthaei
R. Mittra
W. W. Mumford
B. R. Nag
L. S. Napoli
E. Dragø Nielsen
H. Okean
B. Owen
P. Perini
B. S. Perlman

R. A. Pucel
J. P. Quine
J. D. Rhodes
E. Rivier
G. P. Rodrigue
F. J. Rosenbaum
E. W. Sard
G. E. Schafer
M. V. Schneider
W. E. Schroeder
P. Silvester
H. Sobol
P. I. Somlo
B. E. Spielman
W. Steenaart
W. H. Steier
D. Steinbrecker
F. Sterzer
H. E. Stinehelfer
W. Streifer
J. J. Taub
F. J. Tischer
W. C. Tsai
J. A. Weiss
R. J. Wenzel
H. A. Wheeler
L. A. Whicker
J. F. White
I. Wolff
Y. S. Wu
E. Yamashita
L. Young

INSTITUTIONAL LISTINGS

The IEEE Microwave Theory and Techniques Society is grateful for the assistance given by the firms listed below, and invites application for Institutional Listing from other firms interested in the microwave field.

ADAMS - RUSSELL CO., INC.



Antenna & Microwave Division
Haverhill Road
Amesbury, MA 01913
Airborne Antennas, ECM Antennas, RF Coaxial Cable
Assemblies, Waveguide Systems & Microwave Components



RANDTRON SYSTEMS
130 Constitution Dr.
Menlo Park, Calif. 94025

Design, Development, & Production
Active and Passive Antenna Systems. Fixed and Gimballed
Microwave Receivers, Multichannel Rotary Joints

MAURY MICROWAVE CORPORATION

8610 Helms Ave., Cucamonga, Calif. 91730
Tel. 714-987-4715

Precision Microwave Components & Instrumentation,
Waveguide & Coaxial Devices—DC to 40 GHz & beyond
ECM/EW Transmission Lines & Components, mm Coaxial
Connectors, Connector Gages, Cryogenic Terminations,
ANA Calibration Kits

THE NARDA MICROWAVE CORPORATION

75 Commercial St., Plainview, N. Y. 11803
Microwave Test Equipment & Devices, Sweepers,
Couplers, Attenuators, PIN Switches & Detectors, Gunn
Oscillators,
GaAs FET Solid State Amplifiers



TRANSCO PRODUCTS, INC.
4241 Glencoe Ave., Venice, Calif. 90291
(213) 822-0800

Products to direct RF energy . . . Coaxial & Waveguide
Switches, Antennas, Filters, Hybrids, Couplers, Multiplexers,
Power Dividers, RF & Antenna Subsystems.

BALL BROTHERS RESEARCH CORP.

P.O. Box 1062, Boulder, Colo. 80306
303-441-4145

Microstrip Antenna Systems for
Missiles and Satellites
Conformal Phased Arrays
Antenna R & D and Production

An Institutional Listing recognizes contributions to support the publication of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES. Minimum rates are \$60.00 for listing in one issue; \$260.00 for six consecutive or alternate issues; \$440.00 for twelve consecutive issues. Larger contributions will be most welcome. No agency fee is granted for soliciting such contributions. Inquiries, or contributions made payable to the IEEE, plus instructions on how you wish your Institutional Listing to appear, should be sent to R. M. Emberson, The Institute of Electrical and Electronics Engineers, 345 East 47 Street, New York, NY 10017.