



IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES

AUGUST 1968

Published Monthly

VOLUME MTT-16

NUMBER 8

EDITORIAL BOARD

Editor

S. Okwit

Advertising Editor

J. H. Bryant

D. B. Anderson

A. D. Berk

M. E. Brodwin

H. E. Bussey

C. J. Carter

K. S. Champlin

A. Clavin

M. Cohn

S. B. Cohn

P. D. Coleman

R. E. Collin

E. G. Cristal

W. Culshaw

W. B. Day

B. C. DeLoach

R. V. Garver

W. J. Getsinger

I. Goldstein

R. C. Hansen

H. Heffner

E. M. T. Jones

D. D. King

P. A. Loth

G. L. Matthaei

S. E. Miller

W. W. Mumford

F. A. Olson

J. Reed

F. Reggia

G. P. Rodrigue

G. E. Schafer

B. M. Schiffman

R. F. Schwartz

R. Seckelmann

C. B. Sharpe

D. C. Stinson

D. J. R. Stock

W. Streifer

L. Swern

C. T. Tai

J. J. Taub

F. J. Tischer

P. H. Vartanian

A. T. Villeneuve

J. R. Wait

R. J. Wenzel

R. F. Whitmer

L. Young

PAPERS

- Forward and Backward Scattered Modes in Multimode Nonuniform Transitions. . . *C. C. H. Tang* 494
- Wave Scattering in Nonuniform Waveguides with Large Flare Angles and Near Cutoff. . . *E. Bahar* 503
- Uniform Transmission Line Equivalence of Cascaded Exponential Lines. . . *D. Das and O. P. Rustogi* 511
- Symmetrically Truncated Right-Angle Corners in Parallel-Plate and Rectangular Waveguides. . .
..... *J. J. Campbell and W. R. Jones* 517
- Variational Method for the Analysis of Microstrip-Like Transmission Lines. *E. Yamashita* 529
- Equivalent Circuit of the Bolometer Detector. *S. B. Cohn* 536
- A 1200-Megabit per Second Microwave-Carrier Grey-Code Analog-to-Digital Converter. *R. E. Fisher* 541
- A Molecular Resonance AFC System for Millimeter Oscillators. *M. E. Cram and D. T. Paris* 548

CORRESPONDENCE

- A Note on the Synthesis of Coupled-Line Directional Couplers and All-Pass Networks. *W. Steenaart* 554
- Correction to "Characteristic Impedances of Generalized Rectangular Transmission Lines"
..... *A. A. Clark* 555
- The Effectiveness of Component Elements in Commensurate Linelength Filters.
..... *M. C. Horton and R. J. Wenzel* 555
- High-Power Y-Junction E-Plane Circulator. *W. H. Wright, Jr., and J. W. McGowan* 557
- Gap Spacing for Narrow-Bandwidth End-Coupled Symmetric Stripline Filters. *J. K. Richardson* 559
- Microstrip Filters and Couplers. *D. Kelley, A. G. Kramer, and F. G. Willwerth* 560
- Application of the Point-Matching Method in Determining the Reflection and Transmission Coefficients in Linearly Tapered Waveguides. *T. D. Shockley, C. R. Haden, and C. E. Lewis* 562
- Avalanche Diode Application to Microwave Receivers. *E. T. Harkless* 564
- First-Order Propagation in Moving Media. *D. Censor* 565
- The Exponential Horn as a Uniform Waveguide with a Variable Index of Refraction.
..... *L. W. Zelby, A. J. Russo, and S. G. Beard* 566
- Improvement to "Theory of Direct-Coupled-Cavity Filters" *R. Levy and H. J. Riblet* 567
- Scattering Parameters of Binary Power Dividers. *H. J. Hindin* 568

- CONTRIBUTORS. 570

- INFORMATION FOR AUTHORS. 572