



IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES

JANUARY 1966

VOLUME MTT - 14

NUMBER 1

Published Monthly

EDITORIAL BOARD

Editor

S. Okwit

Advertising Editor

R. A. Rivers

D. B. Anderson
D. J. Angelakos
A. D. Berk
C. R. Boyd
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
W. Culshaw
R. W. Damon
W. B. Day
B. C. DeLoach
R. G. Fellers
M. P. Forrer
R. V. Garver
W. J. Getsinger
I. Goldstein
R. C. Hansen
H. Heffner
E. M. T. Jones
G. R. Jones
I. Kaufman
D. D. King
P. A. Loth
G. L. Matthaei
T. Moreno
S. P. Morgan
W. W. Mumford
F. A. Olson
J. E. Pippin
J. Reed
F. Reggia
G. P. Rodrigue
G. E. Schafer
B. M. Schiffman
R. F. Schwartz
C. B. Sharpe
J. Shmoyes
L. Stark
D. C. Stinson
D. J. R. Stock
W. Streifer
L. Swern
J. J. Taub
F. J. Tischer
P. H. Vartanian
A. T. Villeneuve
M. T. Weiss
G. J. Wheeler
R. F. Whitmer
J. C. Wiltse
L. Young
R. W. Zimmerer

CONTRIBUTIONS

- Design of Microwave Dielectric Resonators. J. C. Sethares and S. J. Naumann 2
Impedances of Offset Parallel-Coupled Strip Transmission Lines. J. Paul Shelton, Jr. 7
Theoretical Analysis of Twin-Slab Phase Shifters in Rectangular Waveguide. Ernst Schlomann 15
Phase-Shift Characteristics of Helical Phase Shifters. Robert Seckelmann 24
Some Fundamental Design Principles for the Development of Precision Coaxial Standards and Components. T. E. MacKenzie and A. E. Sanderson 29

CORRESPONDENCE

- A Resonator Technique for Studying Dispersion in Longitudinally Magnetized Plasma Guides. R. Likuski, P. D. Coleman, and J. J. Stafford 40
A Parallel-Strip Point-Contact Diode Mount for Video Detection of Millimeter Waves. M. A. Gerdine and F. S. Barnes 41
A 150 Mc/s Circulator. B. Maher, D. Mitchell, and A. Reeves 42
Frequency Doublers Using Varactors Exhibiting "Punch-Through" Capacitance-Voltage Behavior. Cheng Lee Chao 43
A Digital Current Controlled Latching Ferrite Phase Shifter. L. R. Whicker and R. R. Jones 45
General Three-Resonator Filters in Waveguide. Richard M. Kurzrok 46
Peak-Pulse Power Calibrations Initiated. National Bureau of Standards 47
On the Impedance of a Finite Slot. M. A. Plonus 48
Propagation of the Quasi-TEM Mode in Ferrite-Filled Coaxial Line. M. M. Weiner, M. E. Brodwin, and D. Miller 49

CONTRIBUTORS. 51

MICROWAVE ABSTRACTS. 52

ANNOUNCEMENTS

- AIAA Plasmadynamics Conference. 53
International Symposium on Generalized Networks. 53
1966 Conference on Precision Electromagnetic Measurements. 54

WHY JOIN G-MTT? 55

INFORMATION FOR AUTHORS. 56