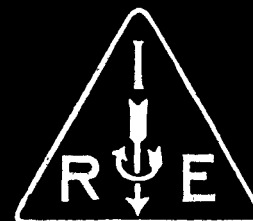


IRE Transactions



on Microwave Theory and Techniques

Volume MTT-6

JANUARY, 1958

Number 1

In This Issue

	<u>PAGE</u>
Frontispiece	2
Editorial	3
Foreword	4
Contributions	5
Correspondence	111
PGMTT News	113
Call for Papers 1958 National Symposium	114
Contributors	115
Roster of PGMTT Members	119

For complete Table of Contents, see page 1.

PUBLISHED BY THE

Professional Group on Microwave Theory and Techniques

IRE PROFESSIONAL GROUP ON MICROWAVE THEORY AND TECHNIQUES

The Professional Group on Microwave Theory and Techniques is an association of IRE members with professional interest in the field of Microwave Theory and Techniques. All IRE members are eligible for membership and will receive all Group publications upon payment of the prescribed annual fee of \$3.00. Members of the American Physical Society may become affiliated with PGMTT and receive all Group publications upon payment of the Affiliate fee of \$7.50 per year.

Administrative Committee

Chairman

W. L. PRITCHARD

Vice-Chairman

T. S. SAAD

Secretary-Treasurer

R. D. WENGENROTH

T. N. ANDERSON	H. F. ENGELMANN	R. F. SCHWARTZ
R. E. BEAM	HENRY MAGNUSKI	GEORGE SINCLAIR
A. C. BECK	W. W. MUMFORD	G. C. SOUTHWORTH
A. G. CLAVIER	A. A. OLINER	KIYO TOMIYASU
S. B. COHN	S. D. ROBERTSON	ERNEST WANTUCH
C. W. CURTIS		H. A. WHEELER

PGMTT Chapters

Albuquerque-Los Alamos	H. D. Finch	New York	Saul Rosenthal
Baltimore	W. R. Hom	Northern New Jersey	Nat Evans
Boston	P. D. Strum	Philadelphia	E. J. Forbes
Buffalo-Niagara	Robert E. Kell	San Diego	J. B. Smyth
Chicago	Edward Dervishian	San Francisco	W. H. Thon
Long Island	Henry Jasik	Schenectady	T. R. Bristol
Los Angeles	Dean Anderson	Syracuse	W. T. Whistler
	Washington	Gustave Shapiro	

IRE TRANSACTIONS®

on Microwave Theory and Techniques

Published by the Institute of Radio Engineers, Inc., for the Professional Group on Microwave Theory and Techniques, at 1 East 79th Street, New York 21, New York. Responsibility for the contents rests upon the authors, and not upon the IRE, the Group, or its members. Price per copy: IRE PGMTT members, \$2.65; IRE members, \$3.95, nonmembers, \$7.95. Annual subscription price: IRE members, \$8.50; colleges and public libraries, \$12.75; nonmembers, \$17.00.

Address all manuscripts to K. Tomiyasu, PGMTT Editor, General Electric Microwave Laboratory, 601 California Ave., Palo Alto, Calif. Submission of three copies of manuscripts, including figures, will expedite the review.

COPYRIGHT ©1958—THE INSTITUTE OF RADIO ENGINEERS, INC.

All rights, including translations, are reserved by the IRE. Requests for republication privileges should be addressed to the Institute of Radio Engineers, 1 E. 79th St., New York 21, N.Y.