

Transactions of the I.R.E.

Professional Group on Microwave Theory and Techniques

Volume MTT 1, Number 1

March, 1953

TABLE OF CONTENTS

Foreword	3
A New Chart for the Solution of Transmission Line and Polarization Problems	
. Georges Deschamps	5
Some Coupled-Wave Theory and Application to Waveguides (Abstract) S. E. Miller	14
Audio Modulation Substitution System for Microwave Attenuation Measurements	
. John Korewick	14
The Microwave Interferometer for Measuring the Time Displacement of a Projectile Within the Barrel of a Gun (Abstract)	
H. C. Hanks, Jr.	22
Performance of Ferrites in the Microwave Range (Abstract).	
A. G. Fox	22
Microstrip - A New Microwave Transmission Technique (Abstract) H. F. Engelmann	22
X-Band Rotary Joint.	
H. J. Riblet and R. L. Williston	23
Doubly Compensated Tunable Cavity	
T. S. Saad	25
Compact Top-Wall Hybrid Junction.	
Eugene Hodge	29
Duplexing Filter Design at 2000 Mc	
D. R. Crosby	31
A Standard Waveguide Spark Gap.	
David Dettinger and R. D. Wengenroth	39
A Rotary Joint for Two Microwave Transmission Channels of the Same Frequency Band (Abstract).	
H. P. Raabe	48