

## 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. OSEPOCHUCK  
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

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. Bharti  
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. Fischer  
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.

**ATLANTIC MICROWAVE CORPORATION**  
Rt. 117, Bolton, Mass. 01740  
Tel. (617) 779-5525 TWX 710-392-1585  
Development and Production for military and commercial systems manufacturers. Complete front ends from the antenna feed through the IF amplifier—including monopulse comparators, passive components and active circuitry.

**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

**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



**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.



**MICROWAVE ASSOCIATES, INC.**  
Burlington, Mass. 01803 (617) 272-3000  
Dunstable, Beds, U.K., Dunstable 601441

Semiconductors, Tubes, Components, Sources, Switches, Ferrites, Subassemblies, Communication Systems

**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.**