CONTENTS

Electronic Theory of the Cylindrical Magnetron

By L. Brillouin and F. Bloch, *International Business Machines Corporation, New York, and Stanford University, Stanford, California*

Tube Miniaturization

By John E. White, *National Bureau of Standards, Washington, D. C.*

Subminiaturization Techniques

By Gustave Shapiro, *National Bureau of Standards, Washington, D. C.*

Principles of Pulse Code Modulation

By H. F. Mayer, *School of Electrical Engineering, Cornell University, Ithaca, New York*

A Summary of Modern Methods of Network Synthesis

By E. A. Guillemin, *Massachusetts Institute of Technology, Cambridge, Massachusetts*

Illustrative Examples

Communication Theory

By Meyer Leifer and William F. Schreiber, *Sylvania Electric Products Inc., Bayside, New York*