

Calendar of events

3

- July 26-August 19 University of Michigan Summer Symposia on Electronics, Theoretical Physics, and Fluid Mechanics, Ann Arbor, Michigan
- July 31-August 6 American Association for the Advancement of Science Gordon Research Conference on Instrumentation, New London, New Hampshire
- August 14-21 Sixth International Congress on the History of Science (Sponsored by the International Academy and the International Union for the History of Science), Amsterdam, Holland
- August 21-24 Illuminating Engineering Society National Technical Conference, Pasadena, California
- August 21-26 New England Association of Chemistry Teachers, Storrs, Connecticut
- August 30-September 6 International Congress of Mathematicians, Cambridge, Massachusetts
- September 3-8 American Chemical Society, Chicago, Illinois
- September 8-9 Symposium on Plasticity (held under the auspices of the Graduate Division of Applied Mathematics of Brown University), Providence, Rhode Island
- September 10-13 American Institute of Chemical Engineers (Regional Meeting), Minneapolis, Minn.
- September 13-15 Institute of Radio Engineers (West Coast Convention), Long Beach, California
- September 14-16 Electron Microscope Society of America (Annual Meeting), Detroit, Michigan
- September 14-22 Congrès International de Microscopie Electronique (Sponsored by Société Française de Microscopie Théorique et Appliquée), Paris, France
- September 17-23 Congrès de Chimie Industrielle, Milan, Italy
- September 18-22 Instrument Conference and Exhibit (National), Buffalo, New York
- September 18-23 International Conference on Spectroscopy at Radiofrequencies (Sponsored by Netherlands Physical Society), Amsterdam, Netherlands
- September 21-23 Polymer Chemistry as Applied to Plastics Symposium (Sponsored by Society of Chemical Industry), The University, London, England
- September 25-27 National Electronics Conference, Chicago, Illinois
- September 28-October 1 Associazione Italiana di Metallurgia (4th National Congress), Florence, Italy
- September 29-30 American Physical Society, New York State Section, Potsdam, New York
- October 2-5 Technical Association of Pulp and Paper Industry Engineering Conference, Cincinnati, Ohio
- October 10-12 National Academy of Sciences, Schenectady, N. Y.
- October 11-14 American Society of Civil Engineers, Chicago, Illinois
- October 16-20 Society of Motion Picture and Television Engineers, Lake Placid, New York
- October 18-19 Conference on Industrial Hydraulics (Sponsored by Armour Research Foundation), Chicago, Illinois
- October 19-21 Conference on Gaseous Electronics (Sponsored by Electron Physics Division, American Physical Society), New York City
- October 23-27 American Institute of Electrical Engineers (General Meeting), Oklahoma City, Oklahoma
- October 23-27 American Society for Metals, Chicago, Illinois
- October 26-28 Optical Society of America, Cleveland, Ohio

Physics Today, a general interest magazine on physics, is published monthly by the American Institute of Physics, Incorporated, at Prince and Lemon Streets, Lancaster, Pennsylvania and is printed in the U. S. A.

Contributions (typed, double-spaced, and in duplicate) are invited. They should be addressed to the Editor and accompanied by return postage.

Editorial Production, and Advertising Offices are at the American Institute of Physics, 57 East 55th Street, New York 22, New York.

Subscription rates—United States and Possessions, Canada, and Mexico: \$4.00 per year. Elsewhere: add \$1.00 per year for postage. Single copies: 50¢.

Change of address should be sent to the American Institute of Physics, 57 East 55th Street, New York 22, New York.

Statements and opinions expressed in *Physics Today* are those of individuals unless indicated as an official position of the Institute.

Copyright 1950 by the American Institute of Physics. All rights reserved.

JUST PUBLISHED!

A Complete, Up-to-date Treatment of Waveguide Transmission, Covering Both Mathematical Theory and Practical Applications

HERE at last is a comprehensive, thorough-going study of waveguide techniques that covers not only such practical applications as television and radar, but explores the scientific investigation of electromagnetic phenomena—of the sun's spectrum, of the earth's atmosphere, of the absorptive properties of gases for microwaves, and in measurements of the dielectric properties of insulators and conductors.

PRINCIPLES AND APPLICATIONS OF WAVEGUIDE TRANSMISSION

By George C. Southworth, Ph.D.

*Member of the Technical Staff, Bell Telephone Laboratories
Investigator of Waveguide Transmission Phenomena
for Approximately Fifteen Years*

In this brand-new book, Dr. Southworth has based his study on the remarkable range of source material prepared at the Bell Telephone Laboratories, where much of the evolution of waveguide technique has taken place. Consequently this work reflects the broadest background and the most recent developments in this important, expanding field.

The early chapters of this work provide a broad treatment of the mathematical theory of waveguide transmission. This is immediately followed by a physical interpretation of the phenomena most frequently observed—a two-fold approach that is particularly valuable to students of electrical engineering and applied physics, both in lecture room and laboratory. Professionals chiefly interested in the practical aspects of the subject can proceed directly from the physical interpretation to the remaining chapters, constituting about two-thirds of the book, and dealing with current experimental research and concrete applications.

EXAMINE THIS BOOK FREE

Use the convenient order form below to obtain a copy of this important new work.

PLEASE CUT OUT AND MAIL—

D. Van Nostrand Company, Inc. Phy. Today—850
250 Fourth Avenue, New York 3, New York

Please send me a copy of PRINCIPLES AND APPLICATIONS OF WAVEGUIDE TRANSMISSION. Within ten days I will either return the book without obligation or send you \$9.50.

Name.....

Address.....

City..... Zone..... State.....