

# Personals

1922

RALSTON E. BEAR retired as manager of distributor sales for the apparatus sales division of the General Electric Company in Los Angeles in July. He had been with the company for almost 41 years.

1936

CLARENCE F. GOODHEART, chairman of the electrical engineering department at Union College in Schenectady, N.Y., has been named a Fellow in the Institute of Electrical and Electronics Engineers (IEEE) for "his contributions to the teaching of electrical engineering."

JOHN L. WEBB, PhD '40, professor and chairman of the department of pharmacology at USC, received the \$1000 USC Associates award for 1963, for creative scholarship and research — specifically for his four-volume reference work, *Enzymes and Metabolic Inhibitors*. Volume One was published early this year. Dr. Webb has taught at USC since 1940, and in 1960 was the recipient of a \$1,000 Associates award for excellence in teaching.

1938

JOHN G. McLEAN, vice president of Continental Oil Company's international operations, has been promoted to vice president and general manager of European operations. He makes his headquarters in London.

1946

ROBERT H. GRUBE, head of detector systems analysis in the avionics division of the Aerojet-General Corporation in Azusa, is one of five authors of *Infrared Physics and Engineering*, just published by McGraw-Hill.

L. WAYNE MULLANE, MS, AE'47, has been appointed vice president and general manager of Aerojet-General Corporation in El Monte.

1949

HOWARD J. COHAN is now assistant chief of the water conservation branch of the Bureau of Reclamation in Denver, Colorado. He has been with the Bureau since his graduation from Caltech.

1950

ROBERT C. HOWARD, MS, PhD '53, is corporate engineer at Giannini Controls Corporation in Duarte. He has been with the company since 1957 and was formerly chief engineer of the GCC Systems Division.

DONALD A. DOOLEY, MS, PhD '56, is corporate vice president and general manager of the engineering division of Aerospace Corporation in San Bernardino.

RICHARD H. PERRY has been appointed senior engineer for Aeronutronic, Division of Philco Corporation, a subsidiary of the Ford Motor Company.

ROBERT C. MILLER, MS, is at MIT for a year, studying management on an Alfred P. Sloan Fellowship.

1956

IRVING STATLER, PhD, is now head of the applied mechanics department of the Cornell Aeronautical Laboratory in Buffalo, N.Y. He has been with Cornell for more than 16 years.

## VITAL TITLES IN THE FIELD OF SCIENCE

### ASTRONAUTICAL GUIDANCE

By RICHARD H. BATTIN, Massachusetts Institute of Technology. Electronic Sciences Series. Available in January, 1964.

The purpose of this book is to provide the research scientist and the senior-graduate student with the background for understanding the problems and requirements of self-contained navigation and guidance systems. Although the emphasis is primarily on the mathematical aspects of the subject, the treatment is very much motivated by the engineering realities imposed by the author's work on the Apollo project for NASA. In every instance, the selected problems have been motivated and the solutions tempered by the requirements of the astronautical engineer.

### INTRODUCTION TO RADIOLOGICAL HEALTH

By HANSON BLATZ, Director, Office of Radiation Control, The City of New York. Available in January, 1964.

A sound look at the importance of the various aspects of radiological health and the control of radiation exposure of both radiation workers and the general public. In addition to a detailed discussion of radiation sources, the book covers characteristics of radiation, interaction of radiation with matter, biological effects of radiation, maximum permissible doses and concentrations, radiation detection and measurement, shielding, contamination control, radioactive waste disposal, the control of radiological hazards, legal aspects of radiation control, and guarding against handling of accidents. The next assumes the student has a working knowledge of nuclear physics and the elements of biology.

### GROUP THEORY AND QUANTUM MECHANICS

By MICHAEL TINKHAM, University of California, Berkeley. International Series in Pure and Applied Physics. Available in January, 1964.

This new volume presents the elements of group theory most pertinent to physical applications and provides a brief but systematic analysis of the quantum mechanics of atoms, molecules, and solids, emphasizing the use of group theoretical techniques. Features: a lucid presentation of the calculation of energy levels and selection rules . . . a treatment of the magnetic groups with illustrative applications to real magnetic groups . . . exercises following each chapter.

### BRAINS, MACHINES, AND MATHEMATICS

By MICHAEL A. ARBIB, Massachusetts Institute of Technology. 150 pages, (cloth) \$5.95, (McGraw-Hill Paperback) \$2.95

This book introduces the reader to the common ground of "brains, machines, and mathematics" where mathematics is used to exploit analogues between the working of brains and the control-computation communication aspects of machines. The book is designed for the reader interested in such topics as cybernetics, information theory, Godel's theorem, and who wishes to gain, from one source, a more complete understanding of the subjects than is possible from popularizations.

### THE GENERAL PHYSIOLOGY OF CELL SPECIALIZATION

Edited by DANIEL MAZIA, University of California, Berkeley, and ALBERT TYLER, California Institute of Technology. McGraw Hill Publications in the Biological Sciences. 480 pages, \$13.50.

In this volume, based on a symposium held in 1962 by the Society of General Physiologists, the emphasis is on the nature of cell specialization rather than the mechanisms of differentiation. Among the topics: the modifications that a "generalized" cell may undergo as it assumes specific functions; the extent to which chemical substances and cell modifications may be employed to solve similar functional problems; pathological changes of cells; how cells keep themselves in a functioning state. The distinguished contributors outline modern methods of exploration involved in basic biological problems and concepts of current interest.

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