

# Books

## THE SCIENTIFIC LIFE

by Theodore Berland

Coward-McCann ..... \$5.75

*The Scientific Life* is a collection of profiles of nine assorted contemporary scientists, designed to give the layman a better understanding of what scientists and the scientific life are like. In a workmanlike manner, Mr. Berland gives a brief biography of each man, follows him step-by-step through a typical day, and — in extensive quotes which sometimes read too much like an unedited tape-recording — gives a more than generous sampling of each man's ideas and opinions.

Caltech is represented here by Murray Gell-Mann, professor of theoretical physics; Dean Wooldridge, PhD '36, research associate in engineering; and Charles Townes, PhD '38, who is now provost of MIT. The other men in the book are Willard Libby, James Van Allen, Albert Sabin, Chester Southam, Jeremiah Stamler, and Philip Hauser. Of the

nine men, one is a chemist, three are physicists, three are medical researchers, one a demographer, and one an engineer. Their scientific lives are suitably varied. In fact, after reading *The Scientific Life*, it would seem that scientists have only these few things in common: they love their work, they work hard, and they don't need much sleep.

## PHILOSOPHY OF HISTORY AND THE PROBLEM OF VALUES

by Alfred Stern

Mouton & Co., The Hague, The Netherlands ..... 25 guilders

In his latest book Alfred Stern, professor of languages and philosophy at Caltech, studies the fields of history and of values in their interdependence, and offers some solutions to their disquieting problems.

"This book," Dr. Stern explains in his introduction, "tries to bring philosophy of history down to earth by

showing that, in our epoch of gigantic ideological struggles and historical changes engaging the future of mankind, philosophy of history is everybody's concern. Our individual destinies depend to a large extent on the fate of the collectivity within which we live. Thus, philosophy of history becomes an essential part of our philosophy of life.

"The author is convinced that philosophy of history is intimately linked with the field of values. Even a superficial approach to the problems of present history reveals that a choice between the different ideologies struggling in our day for supremacy is a choice between different sets of values. The examination of the relationships between philosophy and history and philosophy of values has not yet been undertaken on a broad front. It will be attempted in this book."

The material in the book is based on a course of lectures given by Dr. Stern at the Sorbonne in Paris in 1957.

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### AIR, SPACE, AND INSTRUMENTS:

#### Draper Anniversary Volume

Edited by SIDNEY LEES. 528 pages, \$15.00.

An anniversary volume of original contributions in honor of the sixtieth birthday of Charles Stark Draper, Director and Founder of the Instrumentation Laboratory of the Massachusetts Institute of Technology. The contributions in this volume were written by Draper's distinguished former students, colleagues, and friends in each of the areas where he made important advances. Many of the authors are world-authorities in their respective fields, and much of the material is unobtainable elsewhere.

### SCIENCE, TECHNOLOGY, AND MANAGEMENT

By FREMONT E. KAST and JAMES E. ROSENZWEIG, both of the University of Washington. 384 pages, \$7.95.

A symposium stemming from the National Advanced-Technology Management Conference held in Seattle in conjunction with the Seattle World's Fair in 1962. The book is concerned with the problems of managing very large and complex advanced-technology programs, from their inception to the operation of the end products. Important contributors to the book include such people as General B. A. Schreiber (Air Force Systems Command), Vice-Admiral W. F. Raborn (Director, Special Projects Office), Charles Ames (Vice-President, General Dynamics—Astronautics Company), and Simon Ramo (Vice-Chairman of the Board, Thompson-Ramo-Woodridge Corp.).

### PLASMA PHYSICS AND MAGNETOFLUIDMECHANICS

By ALI BULENT CAMBEL, Northwestern University. McGraw-Hill Series in Missile and Space Technology. 320 pages, \$11.50.

The text indicates how the subject of cosmical electrodynamics may be utilized in developing various technological devices. It coordinates the many aspects of magnetofluidmechanics into a systematic and clear approach. Although primarily an introductory textbook for the student of engineering, it will also prove to be a very useful source book for the practicing engineer. Considerable attention has been given to plasma physics because the engineering devices being developed will, by and large, utilize ionized gases as working media. Consequently, the viewpoint followed is primarily that of a thermodynamicist-fluidmechanician rather than that of a hydrodynamicist.

### ELECTRONIC PROCESSES IN MATERIALS

By LEONID V. AZAROFF, Illinois Institute of Technology; and JAMES J. BROPHY, Armour Research Foundation, Illinois Institute of Technology. 480 pages, \$10.75.

A junior-level text for courses in materials science, for electrical engineering materials, and for solid state physical electronics. It provides a fundamental presentation of the structure and the properties of materials. The presentation is unified and sound; it emphasizes the fundamental principles and theoretical basis for a wide variety of phenomena and avoids the error of trying to deal with devices in a detailed way. The book presupposes a familiarity with the elements of chemistry, physics, and calculus.

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