

OPTICS RESEARCH

Permanent positions are available in our expanding Optics group for experienced personnel interested in solving research problems for industry and government. Applicants should preferably have an advanced degree and research experience in one or more of the following areas:

**PHYSICAL OPTICS
INFRARED OPTICS
IMAGE STRUCTURE
FIBER OPTICS
THIN FILM OPTICS
ATMOSPHERIC OPTICS
OPTICAL ENGINEERING
AND SYSTEMS DESIGN**

These activities are carried on in close co-operation with other groups representing all fields of the physical sciences and engineering. Our location on the campus of the Illinois Institute of Technology offers an excellent opportunity for professional development and participation in scientific activities. In addition the Foundation provides for tuition free graduate study as well as offering competitive salaries and liberal relocation allowances and employee benefits.

Write to:

A. J. Paneral

**ARMOUR RESEARCH FOUNDATION
of Illinois Institute of Technology
10 W. 35th St. Chicago 16, Ill.**

fully meets both complaints, and one feels that every textbook on classical hydrodynamics ought to include a substantial treatment of this theory as a corrective. It is to be regretted that Prof. Temple has not found space for such a treatment, though he does at least give a short and simple account of the basic physics of the theory. This might help to set the intelligent and inquiring student on the road towards the truth.

The book succeeds brilliantly in what it sets out to do, namely to expound hydrodynamics as required by an honors course at most British universities. It even attempts, with some success, to overcome the defects of the subject. To overcome them completely the book would have had to be written on a different subject altogether. While such a book would undoubtedly be widely welcomed it would not serve the purposes of the one under review.

Radiation Biology and Medicine: Selected Reviews in the Life Sciences. Edited by Walter D. Claus. 944 pp. (AEC) Addison-Wesley Publishing Co., Inc., Reading, Mass., 1958. \$11.50. *Reviewed by Joseph G. Hoffman, University of Buffalo.*

There are 33 articles by a total of 56 contributors to make this new book on radiobiology an excellent compendium of the most recent ideas and experimental findings in the field. In addition to being an important collection it is noteworthy for its price which is about half of what one would expect to pay for this format. Only two of the many remarkable highlights can be mentioned here. First, is the unique section on Mathematical Biology comprising 3 chapters: Rashevsky, Yockey, and Sacher respectively survey the subject in three major directions. A second highlight is the section on Radiation Safety comprising 4 chapters, the first of which is by Claus: it is a very timely discussion of "The Concept and Philosophy of Permissible Dose".

Although the material is well documented, the text references are not intrusive as they commonly are in reviews. The reading is easy and is facilitated by a detailed table of contents and an adequate index. The editor is to be highly commended for his careful organization of a great mass of information into so readable a book which is also an essential reference text in radiobiology.

The Properties of Gases and Liquids: Their Estimation and Correlation. By Robert C. Reid and Thomas K. Sherwood. 386 pp. McGraw-Hill Book Co., Inc., New York, 1958. \$10.00. *Reviewed by Robert E. Street, University of Washington.*

This book opens with the comment that to the physicist, "everything is known about molecules"; then the authors point out the large gap which remains between the knowledge of molecular laws and the numerical data which engineers need to design a process or a piece of equipment. The purpose of the book is to fill this gap, by presenting first the theoretical basis