

BOOK REVIEWS

Selection of books for review is based on the editor's opinions regarding possible reader interest and on the availability of the book to the editor. Occasional selections may include books on topics somewhat peripheral to the subject matter ordinarily considered acceptable.



Heat and Mass Transfer in Rotating Machinery

Editor Darryl F. Metzger and Naim H. Afgan
Publisher Hemisphere Publishing Corp., New York (1984)
Pages 713
Price \$74.50
Reviewer Thomas R. Rehm

This is the compendium of papers presented at the XIV Symposium of the International Centre for Heat and Mass Transfer held in September, 1982 in Dubrovnik, Yugoslavia.

Topics covered include rotating tubes and channels, rotating surfaces and enclosures, experimental techniques, gas turbines, steam turbines, and rotating heat pipes and thermosyphons.

All of the papers are highly technical, utilizing high-level mathematical relations in many instances. Comparisons are made for new work with previous data, often leading to new insights in the field.

The contents would be of primary use to the advanced researcher in the field. The beginner would be overwhelmed.

Thomas R. Rehm, professor of chemical engineering at the University of Arizona, Tucson, taught chemical engineering from 1960 to 1966 at the University of Denver and at the University of Arizona since 1966. His teaching areas are in the plant and equipment design, mass transfer, and material and energy balance fields. He has also spent 20 years in the supervision of research and teaching laboratory operations along with equipment specification, purchase, and maintenance. His research fields are in computer-aided design and optimization, mass transfer, and process control.

Dr. Rehm's industrial experience has been in process development and equipment design with Universal Oil Prod-

ucts, Chevron Research and the Monsanto Company. He is a current or former member/chairman of three national committees of the American Institute of Chemical Engineers.

Heat Transfer 1986, Volumes 1-6

Editors C. L. Tien, V. P. Carey, and J. K. Ferrell
Publisher Hemisphere Publishing Corp., New York (1986)
Pages 3153
Price \$585.00
Reviewer Clifford J. Cremers

The Eighth International Heat Transfer Conference, organized by a committee with representatives from 12 countries, was held in San Francisco, California, in August 1986. It was a grand event with over 1500 participants, of whom 1051 were authors of 450 technical papers presented in poster sessions and 28 were authors of keynote papers. The proceedings of the conference, *Heat Transfer 1986*, is a 6-volume set of 3153 pages representing a rich collection of current heat transfer research from many countries.

The first volume starts with two plenary papers and continues with all the keynote papers. E. R. G. Eckert, University of Minnesota, presents a history of the International Heat Transfer Conferences beginning with the first in London in 1951, followed by the second in Boulder, Colorado, in 1961, the third in Chicago, Illinois, in 1966, and every four years since in Paris, Tokyo, Toronto, and Munich, respectively. The next two are scheduled for Jerusalem in 1990 and the USSR in 1994. The second plenary paper marked the 300th anniversary of the birth of Daniel Gabriel Fahrenheit with a paper entitled "Fahrenheit, A Pioneer of