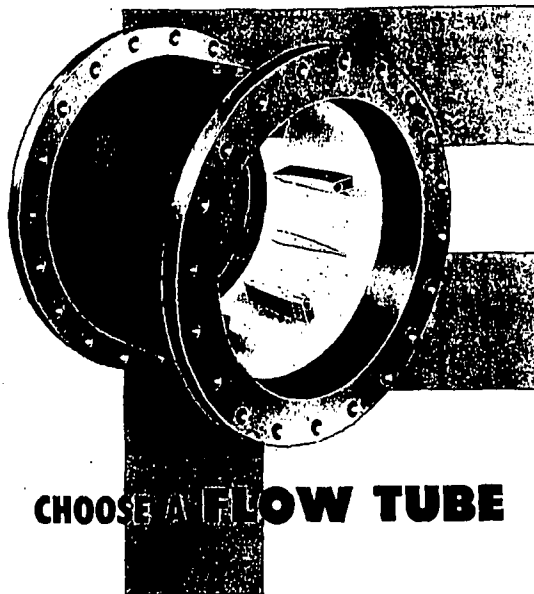


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More BOOKSHELF

Begin on page 228

New data based on tests conducted at Lehigh University help to arrive at values which represent maximum safe design limits. These include corrections in heat transfer for different tube materials. Performance curves have been included to show more nearly actual maximum performance. A new section of recommended sizes is included. The book covers recommended capacities for rapid evacuation and revised recommended vacuum pump capacities.

The Standards help purchaser of condensers by defining essential terms and setting up definite standards of heat-transfer rates and performance guarantees. They also contain material needed by engineers when writing specifications or designing surface condensing equipment.

BASIC MECHANICS OF FLUIDS. (1953). By H. Rouse, Professor of Fluid Mechanics and Director of Iowa Institute of Hydraulic Research, and J. W. Howe, Professor and Head of the Department of Mechanics and Hydraulics, State University of Iowa. 6x9 1/4, cloth, 265 pp., 145 illus., 8 tables. \$4.50. John Wiley & Sons, Inc., 440 Fourth Ave., New York 16, N. Y.

This book applies the basic principles of kinematics and dynamics to the elementary motion of a fluid to study the effect on each essential property of the fluid. A constant effort is made to realize the use of general methods of analysis rather than isolated procedures for solving particular problems.

To simplify presentation and analysis, the authors have avoided using the partial derivative in the mathematical treatment of the subject. Omission of the more complex aspects of the subject, such as inherently unsteady flow, and restriction of problems to direct application of individual principles has resulted in further simplification. The topics covered include fluid statics, fluid kinematics, fluid dynamics, effects of fluid weight, fluid viscosity, turbulent flow in conduits, flow past immersed bodies, lift and propulsion and fluid compressibility.

POWER PLANT ENGINEERING. Third edition. (1953). By F. T. Morse, Professor of Mechanical Engineering, University of Virginia. 6x9 1/4, cloth, 687 pp., 118 illus., tables, charts, \$8.75. D. Van Nostrand and Company, Inc., 250 Fourth Ave., New York 3, N. Y.

This well-known text book has been completely rewritten and its title shortened by dropping out the words "and Design." The former chapters on hydraulic power and electrical equipment have been dropped. The space thus released has been used for greater coverage of steam-plant equipment and information on gas-turbine plants and nuclear energy.

As in the earlier editions, the book strives to present a thorough study of stationary power and heating plants, including public service, industrial and institutional types. Fundamentals are emphasized as well as the integration of the plant as a whole rather than concentration on design details. Much

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