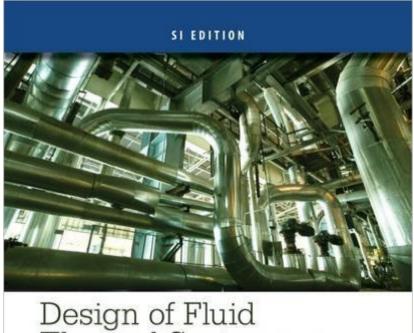
## The book was found

# **Design Of Fluid Thermal Systems, SI Edition**



# Design of Fluid Thermal Systems 4e





### Synopsis

This book is designed to serve senior-level engineering students taking a capstone design course in fluid and thermal systems design. It is built from the ground up with the needs and interests of practicing engineers in mind; the emphasis is on practical applications. The book begins with a discussion of design methodology, including the process of bidding to obtain a project, and project management techniques. The text continues with an introductory overview of fluid thermal systems (a pump and pumping system, a household air conditioner, a baseboard heater, a water slide, and a vacuum cleaner are among the examples given), and a review of the properties of fluids and the equations of fluid mechanics. The text then offers an in-depth discussion of piping systems, including the economics of pipe size selection. Janna examines pumps (including net positive suction head considerations) and piping systems. He provides the reader with the ability to design an entire system for moving fluids that is efficient and cost-effective. Next, the book provides a review of basic heat transfer principles, and the analysis of heat exchangers, including double pipe, shell and tube, plate and frame cross flow heat exchangers. Design considerations for these exchangers are also discussed. The text concludes with a chapter of term projects that may be undertaken by teams of students.

#### **Book Information**

Paperback: 656 pages Publisher: Cengage Learning; 4 edition (April 25, 2014) Language: English ISBN-10: 1305076079 ISBN-13: 978-1305076075 Product Dimensions: 7.4 x 0.8 x 9.7 inches Shipping Weight: 2 pounds (View shipping rates and policies) Average Customer Review: 3.0 out of 5 stars Â See all reviews (1 customer review) Best Sellers Rank: #534,985 in Books (See Top 100 in Books) #110 in Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics #145 in Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Heating, Ventilation & Air Conditioning #209 in Books > Science & Math > Physics > Dynamics > Thermodynamics

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