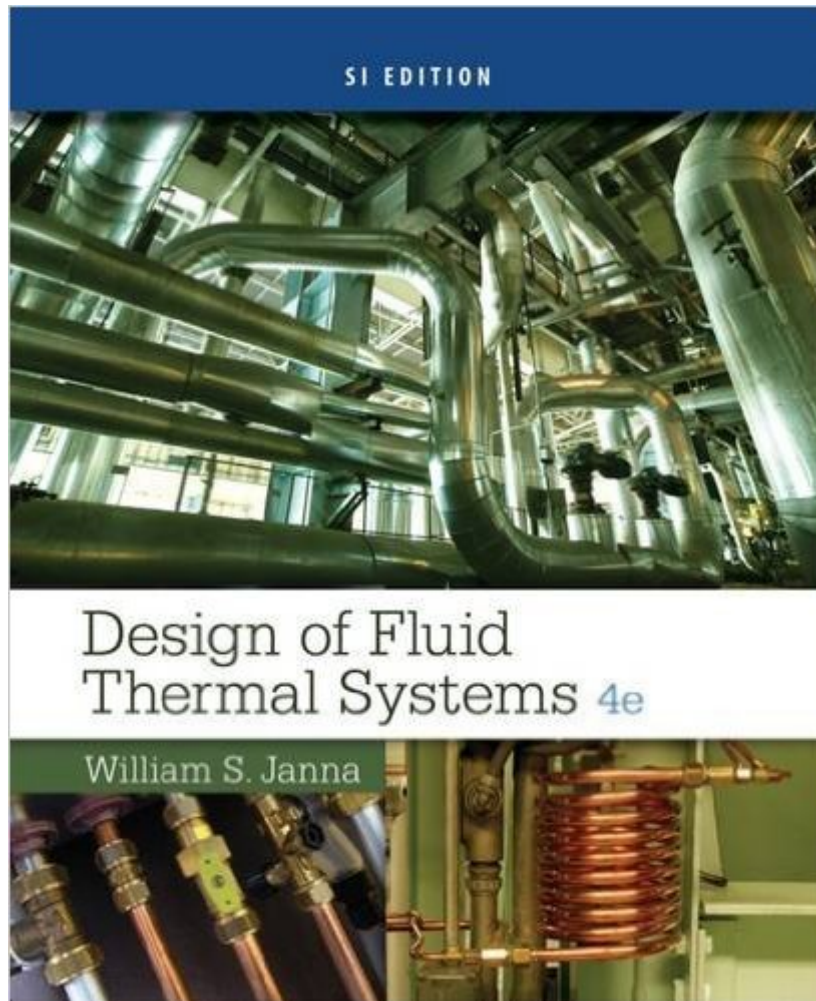


The book was found

Design Of Fluid Thermal Systems, SI Edition



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 Â See all reviews Â (1 customer review)

Best Sellers Rank: #534,985 in Books (See Top 100 in Books) #110 in Â Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics #145 in Â Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Heating, Ventilation & Air Conditioning #209 in Â Books > Science & Math > Physics > Dynamics > Thermodynamics

Customer Reviews

Kindle app is not ideal for ebooks...

[Download to continue reading...](#)

Design of Fluid Thermal Systems, SI Edition Design of Fluid Thermal Systems Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Nuclear Systems Volume 2: Elements Of Thermal Design Design Analysis of Thermal Systems Nuclear Systems Volume I: Thermal Hydraulic Fundamentals, Second Edition Solar Electric Power Generation - Photovoltaic Energy Systems: Modeling of Optical and Thermal Performance, Electrical Yield, Energy Balance, Effect on Reduction of Greenhouse Gas Emissions Planning and Installing Solar Thermal Systems: A Guide for Installers, Architects and Engineers Fluid Transients in Systems Controlling Electrohydraulic Systems (Fluid Power and Control) Electrical Control of Fluid Power: Electric and Electronic Control of Hydraulic & Air Systems Fluid Power Pumps and Motors: Analysis, Design and Control Thermal Environmental Engineering (3rd Edition) Procesamiento termico de frutas y hortalizas / Thermal Processing of Fruits and Vegetables (Spanish Edition) Instale sus paneles solares t  rmicos / Install solar thermal panels: Propuestas f  ciles y econ  micas sin quebraderos de cabeza / Proposals Easy and Inexpensive Without Headaches (Spanish Edition) Hydrogen Manufacture by Electrolysis, Thermal Decomposition and Unusual Techniques Heat Transfer: Thermal Management of Electronics Preventing Thermal Cycling and Vibration Failures in Electronic Equipment Spacecraft Thermal Control Handbook, Volume I: Fundamental Technologies Thermal Delight in Architecture (MIT Press)

[Dmca](#)