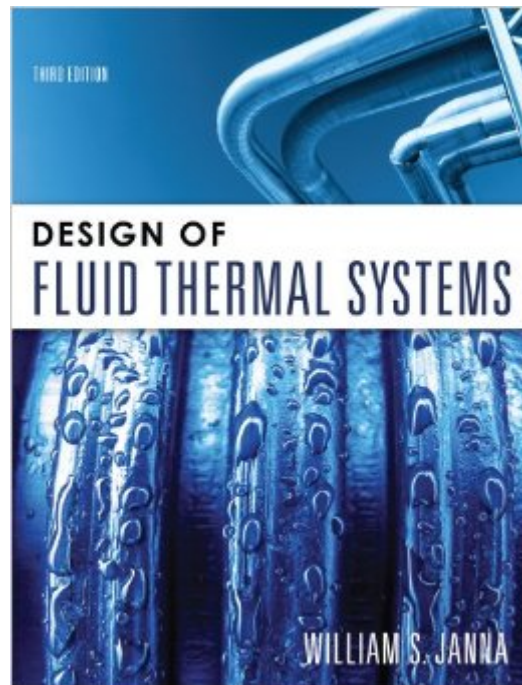


The book was found

# Design Of Fluid Thermal Systems



## 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: CL Engineering; 3 edition (May 11, 2009)

Language: English

ISBN-10: 0495667684

ISBN-13: 978-0495667681

Product Dimensions: 9.1 x 7.4 x 1.1 inches

Shipping Weight: 1.8 pounds

Average Customer Review: 4.2 out of 5 stars [See all reviews](#) (10 customer reviews)

Best Sellers Rank: #641,466 in Books (See Top 100 in Books) #71 in [Books > Engineering & Transportation > Engineering > Design](#) #133 in [Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics](#) #256 in [Books > Science & Math > Physics > Dynamics > Thermodynamics](#)

## Customer Reviews

This book is an exceptional follow up to the fluid dynamics publication by the same author. The material in this text is presented in a very straightforward manner which any mechanical engineer

should be able to comprehend and apply. This is a must have for the engineer who wishes to design functional fluid thermal systems. This is my second copy.

This book had so many errors (ie. typos and incorrect formulas) that we were told to use the formulas from another book. Some of the examples are useful, and the step-by-step instructions are a great start for certain types of problems.

The content of this book is easily read for me!! It contains almost all practical equations and criteria in the field of thermal system design. The most important point I like the book is that it has really help me a lot with my work in many times. It is so suit to asist engineers in preliminary design of fluid thermal system.

Above Average review of thermal fluid fundamentals. Recommended for the beginning pipeline engineer.

Great if you don't mind spending about \$40 more than the paperback international edition. I normally get international editions, but since i only took two classes that semester, I splurged to avoid the hassle of making copies of the appendix tables and unscrambling the homework problems

[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 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 Nuclear Systems Volume I: Thermal Hydraulic Fundamentals, Second Edition 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) 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) PE Mechanical Engineering: Thermal and Fluids Practice Exam Procesamiento termico de frutas y hortalizas / Thermal Processing of Fruits and Vegetables (Spanish Edition)

[Dmca](#)