

William S Janna Design Of Fluid Thermal Systems

Design of Fluid Thermal Systems, SI Edition
Design of Fluid Thermal Systems - SI
Version
Thermal Design
A Finite Element Method Primer for
Mechanical Design
Engineering Design Graphics Using CADKEY 5 and
6
Thermodynamics and the Design, Analysis, and Improvement of
Energy Systems, 1993 PC Mag
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LRFD Steel Design
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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 important notice media content referenced within the product description or the product text may not be available in the ebook version

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thermal design heat sinks thermoelectrics heat pipes compact heat exchangers and solar cells second edition is a significantly updated new edition which now includes a chapter on thermoelectrics it covers thermal devices such as heat sinks thermoelectric generators and coolers heat pipes and heat exchangers as design components in larger systems these devices are becoming increasingly important and fundamental in thermal design across such diverse areas as microelectronic cooling green or thermal energy conversion and thermal control and management in space the underlying concepts in this book cover the understanding of the physical mechanisms of the thermal devices with the essential formulas and detailed derivations and also the design of the thermal devices in conjunction with mathematical modeling graphical optimization and occasionally computational fluid dynamic cfd simulation this new edition includes more examples problems and tutorials and a solutions manual is available on a companion website

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