

Thermal Design & Optimization

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Thermal Design And Optimization

Yogesh Jaluria



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Thermal Design and Optimization Adrian Bejan, George Tsatsaronis, Michael J. Moran, 1995-12-12 A comprehensive and rigorous introduction to thermal system design from a contemporary perspective Thermal Design and Optimization offers readers a lucid introduction to the latest methodologies for the design of thermal systems and emphasizes engineering economics system simulation and optimization methods The methods of exergy analysis entropy generation minimization and thermoeconomics are incorporated in an evolutionary manner This book is one of the few sources available that addresses the recommendations of the Accreditation Board for Engineering and Technology for new courses in design engineering Intended for classroom use as well as self study the text provides a review of fundamental concepts extensive reference lists end of chapter problem sets helpful appendices and a comprehensive case study that is followed throughout the text Contents include Introduction to Thermal System Design Thermodynamics Modeling and Design Analysis Exergy Analysis Heat Transfer Modeling and Design Analysis Applications with Heat and Fluid Flow Applications with Thermodynamics and Heat and Fluid Flow Economic Analysis Thermoeconomic Analysis and Evaluation Thermoeconomic Optimization Thermal Design and Optimization offers engineering students practicing engineers and technical managers a comprehensive and rigorous introduction to thermal system design and optimization from a distinctly contemporary perspective Unlike traditional books that are largely oriented toward design analysis and components this forward thinking book aligns itself with an increasing number of active designers who believe that more effective system oriented design methods are needed Thermal Design and Optimization offers a lucid presentation of thermodynamics heat transfer and fluid mechanics as they are applied to the design of thermal systems This book broadens the scope of engineering design by placing a strong emphasis on engineering economics system simulation and optimization techniques Opening with a concise review of fundamentals it develops design methods within a framework of industrial applications that gradually increase in complexity These applications include among others power generation by large and small systems and cryogenic systems for the manufacturing chemical and food processing industries This unique book draws on the best contemporary thinking about design and design methodology including discussions of concurrent design and quality function deployment Recent developments based on the second law of thermodynamics are also included especially the use of exergy analysis entropy generation minimization and thermoeconomics To demonstrate the application of important design principles introduced a single case study involving the design of a cogeneration system is followed throughout the book In addition Thermal Design and Optimization is one of the best newsources available for meeting the recommendations of the Accreditation Board for Engineering and Technology for more design emphasis in engineering curricula Supported by extensive reference lists end of chapter problem sets and helpful appendices this is a superb text for both the classroom and self study and for use in industrial design development and research A detailed solutions manual is available from the publisher

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Third Edition Yogesh Jaluria, 2019-09-06 Design and Optimization of Thermal Systems Third Edition with MATLAB Applications provides systematic and efficient approaches to the design of thermal systems which are of interest in a wide range of applications It presents basic concepts and procedures for conceptual design problem formulation modeling simulation design evaluation achieving feasible design and optimization Emphasizing modeling and simulation with experimentation for physical insight and model validation the third edition covers the areas of material selection manufacturability economic aspects sensitivity genetic and gradient search methods knowledge based design methodology uncertainty and other aspects that arise in practical situations This edition features many new and revised examples and problems from diverse application areas and more extensive coverage of analysis and simulation with MATLAB

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Thermal design and optimization by integration of simulation and response surface method Deyang Hou, 1998 *Thermal System Optimization* Vivek K. Patel, Vimal J. Savsani, Mohamed A. Tawhid, 2019-02-14 This book presents a wide ranging review of the latest research and development directions in thermal systems optimization using population based metaheuristic methods. It helps readers to identify the best methods for their own systems providing details of mathematical models and algorithms suitable for implementation. To reduce mathematical complexity, the authors focus on optimization of individual components rather than taking on systems as a whole. They employ numerous case studies: heat exchangers, cooling towers, power generators, refrigeration systems, and others. The importance of these subsystems to real world situations, from internal combustion to air conditioning, is made clear. The thermal systems under discussion are analysed using various metaheuristic techniques with comparative results for different systems. The inclusion of detailed MATLAB codes in the text will assist readers, researchers, practitioners, or students to assess these techniques for different real world systems.

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Thermal System Design and Optimization C. Balaji, 2021-01-29 This highly informative and carefully presented textbook introduces the general principles involved in system design and optimization as applicable to thermal systems, followed by the methods to accomplish them. It introduces contemporary techniques like Genetic Algorithms, Simulated Annealing, and Bayesian Inference in the context of optimization of thermal systems. There is a separate chapter devoted to inverse problems in thermal systems. It also contains sections on Integer Programming and Multi Objective optimization. The linear programming chapter is fortified by a detailed presentation of the Simplex method. A major highlight of the textbook is the inclusion of workable MATLAB codes for examples of key algorithms discussed in the book. Examples in each chapter clarify the concepts and methods presented, and end of chapter problems supplement the material presented and enhance the learning process.

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