

Industrial Energy Conservation Techniques Concepts, Applications and Case Studies



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(Oceane Stanton DVM)

INDUSTRIAL ENERGY CONSERVATION TECHNIQUES CONCEPTS, APPLICATIONS AND CASE STUDIES

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Atlantic Publishers & Distributors (P) Ltd, 2007. Hardcover. Book Condition: New. Industrial energy conservation has assumed remarkable significance ever since the first oil crisis struck the world. Industrial energy conservation is a dire necessity of the day. Accordingly, it is increasingly becoming a crucial part in the design, operation and maintenance of a wide range of products and processes. A need to adopt an integrated interdisciplinary approach towards energy systems and acquisition of conservation skills and knowledge has been universally accepted. The present book is an attempt to provide a basic background to energy conservation systems that are common to a wide variety of process industries. It is an insightful text for technical professionals and students pursuing energy systems. It is aimed at creating an opportunity for working engineers and students of mechanical, chemical and electrical engineering to determine if their technologies and organizations have relevant application in the energy systems. The lucidity and simplicity of the book is such that many concepts have been explained with the help of case studies to have practical relevance to different types of industries. Each unit of the book is copiously illustrated and contains principles, illustrations applications and case studies derived from several industrial energy audits. The book also caters to the needs of the non-specialists wanting to know about industrial energy conservation by introducing the concepts of thermal and electrical engineering at appropriate places with suitable applications. This book is an ideal companion to all those engineers who are involved in the design, operation and maintenance of industrial utilities and all those budding engineers pursuing a career related to energy conservation. PART I: THERMAL ENERGY CONSERVATION 1. Fuels and Combustion 2. Heat Exchangers 3. Energy Efficient Steam Generation 4. Energy Efficient Use of Steam 5. Furnaces? Efficient Heat Utilisation 6. Insulation/Refractories 7. Scope for Waste...



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