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Eastop & Mcconkey, Applied Thermodynamics for Engineering ...

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Energy Efficiency for Engineers and Technologists by T. D ...

Energy Efficiency:For Engineers and Technologists by Eastop, T.D. at AbeBooks.co.uk - ISBN 10: 0582031842 - ISBN 13: 9780582031845 - Longman - 1990 - Softcover

Energy Efficiency:For Engineers and Technologists - AbeBooks

Eastop, A. McConkey. Applied Thermodynamics for Engineering Technologists provides a complete introduction to the principles of thermodynamics for degree level students on courses in mechanical, aeronautical, chemical, environmental and energy engineering science courses.

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Energy Efficiency - The New York Times

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Energy Efficiency Engineers Job Description, Duties ...

Energy efficiency : for engineers and technologists, T.D. Eastop, D.R. Croft. 047021645X, Toronto Public Library

Energy efficiency : for engineers and technologists ...

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The finite nature of fossil fuels such as coal, oil and natural gas, the increasing worry about the greenhouse effect and the growing amount of power used in the world means that alternative energy sources such as wind, tide and sun must be seriously considered. But this will take time and money. In the immediate future the most direct and cost-effective way to tackle the problem is to conserve existing sources of energy and this book concentrates on this theme.

A standard introductory text on thermodynamics for undergraduates in mechanical, aeronautical, chemical, environmental, and energy engineering, engineering science, and other studies in which thermodynamics and related topics are an important part of the curriculum. The emphasis throughout is on the applications of theory to real processes and plants. This edition (4th was 1986) is stylistically recast, and revised throughout to emphasize the effective use of energy resources and the need to protect the environment. Copublished with Longman Scientific. Annotation copyright by Book News, Inc., Portland, OR

Industrial energy systems channel fuels and power into a variety of energy types such as steam, direct heat, hot fluids and gases, and shaft power for compressors, fans, pumps, and other machine-driven equipment. All of these processes impact the environment and are impacted by external energy and environmental policies and regulations. Therefore many environmental management issues are closely related to energy use and efficiency. Applied Industrial Energy and Environmental Management provides a comprehensive and application oriented approach to the technical and managerial challenges of efficient energy performance in industrial plants. Written by leading practitioners in the field with extensive experience of working with development banks, international aid organizations, and multinational companies, the authors are able to offer real case studies as a basis to their method. The book is divided into three main parts: Part one describes Energy and Environmental Management Systems (EEMS) in current use and management techniques for energy and environmental performance improvement. Part two focuses on the engineering aspects of industrial energy

management, describing main industrial energy systems and how to analyse and improve their energy performance. Part three is the TOOLBOX on an accompanying website, which contains data, analytical methods and questionnaires as well as software programs, to support the practical application of the methods elaborated on in the first two parts of the book. This book will be a valuable resource to practising energy and environmental management engineers, plant managers and consultants in the energy and manufacturing industries. It will also be of interest to graduate engineering and science students taking courses in industrial energy and environmental management

Winner of an Outstanding Academic Title Award from CHOICE Magazine Encyclopedia of Environmental Management gives a comprehensive overview of environmental problems, their sources, their assessment, and their solutions. Through in-depth entries and a topical table of contents, readers will quickly find answers to questions about specific pollution and management issues. Edited by the esteemed Sven Erik Jørgensen and an advisory board of renowned specialists, this four-volume set shares insights from more than 500 contributors—all experts in their fields. The encyclopedia provides basic knowledge for an integrated and ecologically sound management system. Nearly 400 alphabetical entries cover everything from air, soil, and water pollution to agriculture, energy, global pollution, toxic substances, and general pollution problems. Using a topical table of contents, readers can also search for entries according to the type of problem and the methodology. This allows readers to see the overall picture at a glance and find answers to the core questions: What is the pollution problem, and what are its sources? What is the "big picture," or what background knowledge do we need? How can we diagnose the problem, both qualitatively and quantitatively, using monitoring and ecological models, indicators, and services? How can we solve the problem with environmental technology, ecotechnology, cleaner technology, and environmental legislation? How do we address the problem as part of an integrated management strategy? This accessible encyclopedia examines the entire spectrum of tools available for environmental management. An indispensable resource, it guides environmental managers to find the best possible solutions to the myriad pollution problems they face. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact us to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367 / (email) [e-reference@taylorandfrancis.com](mailto:e-reference@taylorandfrancis.com) International: (Tel) +44 (0) 20 7017 6062 / (email) [online.sales@tandf.co.uk](mailto:online.sales@tandf.co.uk)

Bringing together a wealth of knowledge, Environmental Management Handbook, Second Edition, gives a comprehensive overview of environmental problems, their sources, their assessment, and their solutions. Through in-depth entries and a topical table of contents, readers will quickly find answers to questions about environmental problems and their corresponding management issues. This six-volume set is a reimagining of the award-winning Encyclopedia of Environmental Management, published in 2013, and features insights from more than 400 contributors, all experts in their field. The experience, evidence, methods, and models used in studying environmental management are presented here in six stand-alone volumes, arranged along the major environmental systems. Features The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting-edge topics on ecosystem services, resilience, sustainability, food–energy–water nexus, socio-ecological systems, and more Provides an excellent basic knowledge on environmental systems, explains how these systems function, and offers strategies on how to best manage them Includes the most important problems and solutions

facing environmental management today In this third volume, *Managing Soils and Terrestrial Systems*, the general concepts and processes of the geosphere with its related soil and terrestrial systems are introduced. It explains how these systems function and provides strategies on how to best manage them. It serves as an excellent resource for finding basic knowledge on the geosphere systems and includes important problems and solutions that environmental managers face today. This book practically demonstrates the key processes, methods, and models used in studying environmental management.

With more and more concern being expressed over the Earth's dwindling energy resources as well as rising pollution levels, the subject of energy management and conservation is becoming increasingly important. Over half of all energy consumed is used in buildings so effective management of buildings whether commercial or domestic is vital. This book is a comprehensive text dealing with the theory and practice of the supply of energy to consumers, energy management and auditing and energy saving technology. It will be a core text on courses on energy management and building services, as well as updating professionals in the building sector.

The conventional approach for energy saving in a process system is to maximize heat recovery without changing any process conditions by using pinch technology. "Self-heat recuperation technology" was developed to achieve further energy saving in the process system by eliminating the necessity for any external heat input, such as firing or imported steam. *Advanced Energy Saving and its Applications in Industry* introduces the concept of self-heat recuperation and the application of such technology to a wide range of processes from heavy chemical complexes to other processes such as drying and gas separation processes, which require heating and cooling during operation. Conventional energy saving items in a utility system are applied and implemented based on a single site approach, however, when looking at heavy chemical complexes, it was apparent that the low-grade heat discharged as waste from a refinery could also be used in an adjacent petrochemical plant. There could therefore be a large energy saving potential by utilizing the surplus heat across the sites. *Advanced Energy Saving and its Applications in Industry* assesses conventional approaches to industrial energy saving and explains and outlines new methods to provide even greater energy saving potential. *Advanced Energy Saving and its Applications in Industry* provides a key resource and research tool for all those involved in developing the energy efficiency of industrial processes. Researchers, industry professionals and even students with an interest in green engineering will find the summaries of the conventional and suggested new methods useful when attempting to advance further development within this field.

*Solar Energy Desalination Technology* explains how to obtain clean water from sea water using solar energy. Special methods and types used in solar desalination are introduced, providing new thoughts, concepts, and feasible solutions in the desalination field, along with the thermal and economic efficiency relating to current technology. Many places in the world are suffering from fresh water shortage. However, those places are often rich with solar resources, sea water, and/or brackish water resources that could dramatically benefit from solar energy as a viable solution for the production of fresh water. Explains the principles of solar thermal energy usage to produce clean water from sea water Introduces and explains new kinds of solar desalination systems, including their technical level and working principle Provides fundamental knowledge on water treatment and solar collection

The two associated subjects of thermodynamics and fluid mechanics are combined in this book to provide the reader with an easy-to-follow text which emphasizes the essential

coherence of the material.

This book covers all important, new, and conventional aspects of building electrical systems, power distribution, lighting, transformers and rotating electric machines, wiring, and building installations. Solved examples, end-of-chapter questions and problems, case studies, and design considerations are included in each chapter, highlighting the concepts, and diverse and critical features of building and industrial electrical systems, such as electric or thermal load calculations; wiring and wiring devices; conduits and raceways; lighting analysis, calculation, selection, and design; lighting equipment and luminaires; power quality; building monitoring; noise control; building energy envelope; air-conditioning and ventilation; and safety. Two chapters are dedicated to distributed energy generation, building integrated renewable energy systems, microgrids, DC nanogrids, power electronics, energy management, and energy audit methods, topics which are not often included in building energy textbooks. Support materials are included for interested instructors. Readers are encouraged to write their own solutions while solving the problems, and then refer to the solved examples for more complete understanding of the solutions, concepts, and theory.

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