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Greater Energy Efficiency Can Be

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Achieved Through Land Use Management

This manual provides a handy, straightforward summary of energy efficient building use. It assumes no prior knowledge of the subject. It looks at building fabric as well as building services. It provides

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background on building regulations, energy audits, how to calculate the cost effectiveness of new measures and looks at the latest 'green' issues and government tax policies. Why should I buy this book? It summarises the essentials, rather than dealing with complex theory. It is aimed at

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busy managers. Chapters include: energy efficient buildings; building design - passive environmental controls; building design - active environmental controls; life cycle costing and net saving; conducting energy audits; the economics of 'green' building; useful addresses.

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This book challenges conventional wisdom by showing how, in some circumstances, improved energy efficiency may increase energy consumption. Relying upon energy efficiency to reduce carbon emissions could therefore be misguided. This book explores the broader

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implications for climate change and sustainable consumption.

The Rebound Effect

Transforming End-use Energy

Efficiency in Brazil

Energy Management and Energy

Efficiency in Industry

report

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Energy Use Efficiency in Dryland Agriculture

Energy Efficient Buildings

This book provides energy efficiency quantitative analysis and optimal methods for

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discrete manufacturing systems from the perspective of global optimization. In order to analyze and optimize energy efficiency for discrete manufacturing

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systems, it uses real-time access to energy consumption information and models of the energy consumption, and constructs an energy efficiency quantitative

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index system. Based on the rough set and analytic hierarchy process, it also proposes a principal component quantitative analysis and a combined

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energy efficiency
quantitative analysis.

In turn, the book addresses the design and development of quantitative analysis systems. To save energy

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consumption on the basis of energy efficiency analysis, it presents several optimal control strategies, including one for single-machine equipment, an integrated

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approach based on RWA-MOPSO, and one for production energy efficiency based on a teaching and learning optimal algorithm. Given its scope, the book

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offers a valuable guide for students, teachers, engineers and researchers in the field of discrete manufacturing systems. Today, there is a great

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deal of attention focused on sustainable growth worldwide. The increase in efficiency in the use of energy may even, in this historical moment, bring greater

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benefit than the use of renewable energies.

Electricity appears to be the most sustainable of energies and the most promising hope for a planet capable of

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growing without compromising its own health and that of its inhabitants. Power electronics and electrical drives are the key technologies

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that will allow energy savings through the reduction of energy losses in many applications. This Special Issue has collected several

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scientific contributions related to energy efficiency in electrical equipment. Some articles are dedicated to the use and optimization of permanent magnet motors,

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which allow obtaining the highest level of efficiency. Most of the contributions describe the energy improvements that can be achieved with power electronics

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and the use of suitable control techniques. Last but not least, some articles describe interesting solutions for hybrid vehicles, which were created

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mainly to save energy in the smartest way possible.

The Efficient Use of Energy, Second Edition is a compendium of papers discussing the

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efficiency with which energy is used in industry. The collection covers relevant topics in energy handling and describes the more important features of

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plant and equipment. The book is organized into six parts. Part I presents the various methods of heat production. The second part discusses the use

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of heat in industry and includes topics in furnace design, industrial heating, boiler plants, and water treatment. Part III deals with the

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production of mechanical and electrical energy.

It tackles the principles of internal combustion engines, generators, and the use of nuclear energy. Total

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energy systems and heat salvage are covered in Part IV. Part V elucidates on the use of refractory and insulating materials and the importance of

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instrumentation and control in the regulation of energy consumption. The final section focuses on the environmental aspect of energy production such

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as the control of pollutants emanating from plants during production. The book will be of use to engineers and plant production managers.

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Advances in Glazing
Materials for Windows

Buildings are one of the main causes of the emission of greenhouse gases in the world. Europe alone is responsible for more than 30% of emissions, or

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about 900 million tons of CO₂ per year. Heating and air conditioning are the main cause of greenhouse gas emissions in buildings. Most buildings currently in use were built with poor energy efficiency criteria or, depending on the

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country and the date of construction, none at all.

Therefore, regardless of whether construction regulations are becoming stricter, the real challenge nowadays is the energy rehabilitation of existing

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buildings. It is currently a priority to reduce (or, ideally, eliminate) the waste of energy in buildings and, at the same time, supply the necessary energy through renewable sources. The first can be achieved by improving the

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architectural design, construction methods, and materials used, as well as the efficiency of the facilities and systems; the second can be achieved through the integration of renewable energy (wind, solar, geothermal, etc.) in

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buildings. In any case, regardless of whether the energy used is renewable or not, the efficiency must always be taken into account. The most profitable and clean energy is that which is not consumed.

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Energy consumption is of great interest to manufacturing companies. Beyond considering individual processes and machines, the perspective on process chains and factories as a whole holds major potentials for

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energy efficiency improvements.

To exploit these potentials, dynamic interactions of different processes as well as auxiliary equipment (e.g. compressed air generation) need to be taken into account. In addition, planning and

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controlling manufacturing systems require balancing technical, economic and environmental objectives.

Therefore, an innovative and comprehensive methodology – with a generic energy flow-

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oriented manufacturing simulation environment as a core element – is developed and embedded into a step-by-step application cycle. The concept is applied in its entirety to a wide range of case studies such as

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**aluminium die casting, weaving
mills, and printed circuit board
assembly in order to demonstrate
the broad applicability and the
benefits that can be achieved.**

**This book is presented to
demonstrate how energy**

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efficiency can be achieved in existing systems or in the design of a new system, as well as a guide for energy savings opportunities. Accordingly, the content of the book has been enriched with many examples applied in the

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**industry. Thus, it is aimed to
provide energy savings by
successfully managing the energy
in the readers' own businesses.
The authors primarily present the
necessary measurement
techniques and measurement tools**

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to be used for energy saving, as well as how to evaluate the methods that can be used for improvements in systems. The book also provides information on how to calculate the investments to be made for these necessary

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improvements and the payback periods. The book covers topics such as:

- **Reducing unit production costs by ensuring the reduction of energy costs,**
- **Efficient and quality energy use,**
- **Meeting market needs while**

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maintaining competitive conditions, • Ensuring the protection of the environment by reducing CO₂ and CO emissions with energy saving and energy efficiency, • Ensuring the correct usage of systems by carrying out

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energy audits. In summary, this book explains how to effectively design energy systems and manage energy to increase energy savings. In addition, the study has been strengthened by giving some case studies and their results in

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the fields of intensive energy consumption in industry. This book is an ideal resource for practitioners, engineers, researchers, academics, employees and investors in the fields of energy, energy management,

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energy efficiency and energy saving.

Energy Efficiency

Energy Savers---Tips on Saving Energy and Money at Home (Fifth Printing).

Energy Efficient Building Use

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20 Ways to Optimize Efficiency in the Use of Induction Motors

**Greater Energy Efficiency Can Be
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energy sources, Energy
conservation, Energy consumption,
Vocabulary, Energy technology,
Energy sources, Terminology
Efficient Use and Conservation of
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Encyclopedia of Energy Sciences,

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Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty Encyclopedias. The Theme on Efficient Use and Conservation Of Energy discusses matters of great

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relevance to our world such as:
Efficient Use and Conservation of Energy in the Industrial Sector;
Efficient Use and Conservation of Energy in Buildings; Efficient Use and Conservation of Energy in the Transportation Sector; Efficient Use and Conservation of Energy in

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the Agricultural Sector; Using Demand-Side Management to Select Energy Efficient Technologies and Programs .

These two volumes are aimed at the following five major target audiences: University and College students Educators, Professional

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practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

Study conducted at the Thevankurichi Kallupatti Block in Madurai District of Tamil Nadu, India.

Energy Efficiency in the Urban

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Quantitative Analysis and Optimal
Control of Energy Efficiency in
Discrete Manufacturing System
National Lab Buildings Energy
Efficiency Research Projects :
Final Project Report
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Home Energy Use-- Facts about
Energy Efficiency

Energy Efficiency in Housing
Construction and Domestic Use in
Developing Countries

*Energy Efficiency: Concepts
and Calculations is the*

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first book of its kind to provide an applied, systems oriented description of energy intensity and efficiency in modern economies across the entire energy chain. With an emphasis on analysis,

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specifically energy flow analysis, lifecycle energy accounting, economic analysis, technology evaluation, and policies/strategies for adopting high energy efficiency standards, the

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book provides a comprehensive understanding of the concepts, tools and methodologies for studying and modeling macro-level energy flows through, and within, key economic sectors (electric power, industrial,

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commercial, residential and transportation). Providing a technical discussion of the application of common methodologies (e.g. cost-benefit analysis and lifecycle assessment), each chapter contains figures,

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charts and examples from each sector, including the policies that have been put in place to promote and incentivize the adoption of energy efficient technologies. Contains models and tools to analyze

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each stage at the macro-level by tracking energy consumption and how the resulting data might change energy use Includes accessible references and a glossary of common terms at the end of each chapter

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Provides diagnostic figures, tables and schematics within the context of local, regional and national energy consumption and utilization

Energy efficiency is an essential topic nowadays. Several attempts have made

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to improve energy performance in buildings with particular attention to educational buildings for their high energy consumption. This thesis studies various buildings of the Technical University of

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Catalonia (UPC) with the aim of exploring the relationship between energy consumption and some parameters of the buildings such as floor area, occupancy, U-value, etc. The proposed methodology

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includes the definition of energy performance indicators based on data related to, energy consumption, weather data and buildings characteristics such as floor area, volume of the

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building and year of construction. Indicators are then applied to UPC buildings and finally obtained results are discussed. Results show that the occupancy and space use have a significant effect on

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energy consumption. Floor area and shape factor have also been found significantly influence the energy consumption. Moreover, the study compares the annual energy consumption in the north

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campus between 2011, 2012 and 2013, demonstrating that despite implementation of Energy Optimization Projects (POE), the energy consumption has increased in the north campus buildings. Provides consumers with home

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energy and money savings tips such as insulation, weatherization, heating, cooling, water heating, energy efficient windows, landscaping, lighting, and energy efficient appliances.

Energy Efficiency and

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*Sustainable Consumption
America's Energy Future
Technology and
Transformation
Optimal Design and Retrofit
of Energy Efficient
Buildings, Communities, and
Urban Centers*

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Energy Efficient Servers
*Energy Efficiency in Air
Transportation*

This bibliography was prepared to assist participants in the 21st Air Force Academy Assembly to be held at the Academy on 16-21

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April 1979. It represents a selected portion of the Air Force Academy Library's holdings on the topic indicated.

Energy Efficiency of Medical Devices and Healthcare Facilities provides

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comprehensive coverage of cutting-edge, interdisciplinary research, and commercial solutions in this field. The authors discuss energy-related challenges, such as energy-efficient design, including

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renewable energy, of different medical devices from a hardware and mechanical perspectives, as well as energy management solutions and techniques in healthcare networks and facilities. They also discuss

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energy-related trade-offs to maximize the medical devices availability, especially battery-operated ones, while providing immediate response and low latency communication in emergency situations,

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sustainability and robustness for chronic disease treatment, in addition to high protection against cyber-attacks that may threaten patients' lives. Finally, the book examines technologies and future trends of next

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generation healthcare from an energy efficiency and management point of view, such as personalized or smart health and the Internet of Medical Things — IoMT, where patients can participate in their own

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treatment through innovative medical devices and software applications and tools. The books applied approach makes it a useful resource for engineering researchers and practitioners of all levels involved in medical

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devices development, healthcare systems, and energy management of healthcare facilities. Graduate students in mechanical and electric engineering, and computer science students and

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professionals also benefit.

Provides in-depth knowledge and understanding of the benefits of energy efficiency in the design of medical devices and healthcare networks and facilities Presents best practices

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and state-of-art techniques and commercial solutions in energy management of healthcare networks and systems Explores key energy tradeoffs to provide scalable, robust, and effective healthcare systems and

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networks

America's economy and lifestyles have been shaped by the low prices and availability of energy. In the last decade, however, the prices of oil, natural gas, and coal have increased

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dramatically, leaving consumers and the industrial and service sectors looking for ways to reduce energy use. To achieve greater energy efficiency, we need technology, more informed consumers and producers, and

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investments in more energy-efficient industrial processes, businesses, residences, and transportation. As part of the America's Energy Future project, Real Prospects for Energy Efficiency in the United States

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examines the potential for reducing energy demand through improving efficiency by using existing technologies, technologies developed but not yet utilized widely, and prospective technologies. The

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book evaluates technologies based on their estimated times to initial commercial deployment, and provides an analysis of costs, barriers, and research needs. This quantitative characterization of technologies

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will guide policy makers toward planning the future of energy use in America. This book will also have much to offer to industry leaders, investors, environmentalists, and others looking for a practical diagnosis

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of energy efficiency possibilities.
Efficient Use and Conservation
of Energy - Volume II
Improved Standards Through
End-use Meter Development
Both New and Rehabilitated
Energy Efficiency Manual

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Development of Indices to
Assess Educational Building
Energy Efficiency at the Use
Stage

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service. Energy touches our lives in countless ways and its costs are felt when we fill up at the gas pump, pay our home heating bills, and keep businesses both large and small running. There are long-term costs as well: to the

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**environment, as natural
resources are depleted and
pollution contributes to global
climate change, and to
national security and
independence, as many of the
world's current energy
sources are increasingly**

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concentrated in geopolitically unstable regions. The country's challenge is to develop an energy portfolio that addresses these concerns while still providing sufficient, affordable energy reserves for the nation. The

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United States has enormous resources to put behind solutions to this energy challenge; the dilemma is to identify which solutions are the right ones. Before deciding which energy technologies to develop, and

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on what timeline, we need to understand them better.

America's Energy Future analyzes the potential of a wide range of technologies for generation, distribution, and conservation of energy. This book considers

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technologies to increase energy efficiency, coal-fired power generation, nuclear power, renewable energy, oil and natural gas, and alternative transportation fuels. It offers a detailed assessment of the associated

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impacts and projected costs of implementing each technology and categorizes them into three time frames for implementation.

Energy Efficiency in Air Transportation explores the relationship between air

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transportation and energy use, starting with an analysis of air transport energy sources and their potential development. The book examines how different elements of the air transport system make use of energy,

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with an analysis of various methods for optimizing energy consumption. The book covers the consequences of energy use in terms of economics, environmental impact and sustainable development,

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with a review of the existing and proposed regulatory measures addressing those factors. Aeronautical and air transport engineers interested in aerial vehicle systems design, as well as public administrators and

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regulators concerned with energy efficiency or environmental issues in air transport, will benefit greatly from this comprehensive reference, which captures necessary background information along with the

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newest developments in the field. Examines new developments in energy efficiency in the air transport field Includes exergy analyses of aerial vehicles and systems Shows the environmental impact from fuel use including

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local air quality, consumption of non-renewable materials and contribution to climate change Discusses the CO2 emissions certification required by ICAO for new aircraft models
Energy Efficiency: Concepts

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and Calculations is the first book of its kind to provide an applied, systems oriented description of energy intensity and efficiency in modern economies across the entire energy chain. With an emphasis on analysis,

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specifically energy flow analysis, lifecycle energy accounting, economic analysis, technology evaluation, and policies/strategies for adopting high energy efficiency standards, the book

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**Provides diagnostic figures,
tables and schematics within
the context of local, regional
and national energy
consumption and utilization
Concepts and Calculations
More use should be made of
energy-saving products in**

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**Energy Efficiency Reference
for Asian Use**

**The Law of End-use Energy
Efficiency**

**Optimal Design and Retrofit of
Energy Efficient Buildings,
Communities, and Urban**

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Centers presents current techniques and technologies for energy efficiency in buildings. Cases introduce and demonstrate applications in both the design of new buildings and retrofit of

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existing structures. The book begins with an introduction that includes energy consumption statistics, building energy efficiency codes, and standards and labels from around the world.

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It then highlights the need for integrated and comprehensive energy analysis approaches. Subsequent sections present an overview of advanced energy efficiency technologies for buildings, including

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dynamic insulation materials, phase change materials, LED lighting and daylight controls, Life Cycle Analysis, and more. This book provides researchers and professionals with a coherent set of tools

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and techniques for enhancing energy efficiency in new and existing buildings. The case studies presented help practitioners implement the techniques and technologies in their own projects. Introduces

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a holistic analysis approach to energy efficiency for buildings using the concept of energy productivity Provides coverage of individual buildings, communities and urban centers Includes both the

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design of new buildings and retrofitting of existing structures to improve energy efficiency Describes state-of-the-art energy efficiency technologies Presents several cases studies and examples

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that illustrate the analysis techniques and impact of energy efficiency technologies and controls

Energy is one of the most important factors of production. Its efficient use is

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crucial for ensuring production and environmental quality.

Unlike normal goods with supply management, energy is demand managed. Efficient energy use—or energy efficiency—aims to reduce the

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amount of energy required to provide products and services. Energy use efficiency can be achieved in situations such as housing, offices, industrial production, transport and agriculture as well as in public

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lighting and services. The use of energy can be reduced by using technology that is energy saving. This Special Issue is a collection of research on energy use efficiency.

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Energy Efficiency Manual, by Donald Wulfinghoff, is the new comprehensive reference & how-to-book for energy conservation in commercial buildings, residential buildings & industrial plants. It

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combines the features of encyclopedia, textbook & practical field manual. This handbook details 400 actions for conserving energy in design, construction, retrofit, operation & maintenance.

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They cover heating & cooling efficiency, water conservation, insulation, air leakage, lighting, daylighting, solar heating & industrial equipment. The second part explains renewable energy

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sources, passive solar, wind energy, geothermal heat pumps, energy conservation codes, environmentally safe refrigerants, energy management computers & building automation systems,

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electricity rates, high efficiency motors, boilers, air conditioning equipment, fans, pumps, insulation, high efficiency lamps, thermostats, time controls & many other topics. Written as an easy

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conversation with readers of all backgrounds, it is packed with ratings, tips, illustrations & examples that make it easy to find the right conservation measures for every application. The clear non-

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mathematical presentation is for everyone from homeowners to architects, engineers, contractors, property managers, plant operators, business owners, financial managers, energy

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Devices and Healthcare Applications

Energy Efficiency in Manufacturing Systems Energy Use Efficiency

*The majority of electrical energy
consumed in most industrial facilities is*

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used to run electric motors. Annual energy operating costs of electric motors usually far exceed purchase prices. For example, a typical 25 horsepower (hp) motor running at full load for 6,000 hours per year would consume nearly \$10,000 of electricity annually. An average purchase price for a motor of this size would be only

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\$500 to \$600. Energy efficiency decisions are important decisions that affect operating cost for the life of the equipment. By optimizing the efficiency of your motor-driven systems, you can increase productivity while achieving substantial energy and dollar savings. Opportunities for energy conservation are

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wide spread and applicable to new as well as old plants. It is important to note that majority of savings shall accrue not on the motor itself but on the motor-driven system as a whole. This 6 - hour Quick Book provides 20 different strategies to guide you into the electric motor evaluation process and highlights common

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ways you can improve system efficiency and reliability to achieve permanent long-term electric cost reduction. This course is aimed at students, electrical & control engineers, energy auditors, operational & maintenance engineers, contractors and system designers who are responsible for design and operation of the system.

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Learning Objective At the conclusion of this course, the reader will understand: •

Characteristics, types and classification of motors based on NEMA; • Fixed and variable losses of induction motors; • Power quality and impact of voltage/phase imbalance and power factor on motor performance; • Motor efficiency v/s motor

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load and motor load v/s speed relationships • Motor load estimation techniques; • Comparison of Energy Efficient v/s Standard Motors; • Cost evaluating methods & simple payback analysis of motor replacement; • Application of variable speed drives on motor energy savings; • Motor

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transmission efficiency using synchronous belts/soft starters; • Starting systems viz. direct-on-line, delta star controllers; • Motors repair or replacement decisions; • Monitoring and maintenance practices. Sometimes solving climate change seems impossibly complex, and it is hard to know what changes we all can and should make

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to help. This book offers hope. Drawing on the latest research, Mark Jaccard shows us how to recognize the absolutely essential actions (decarbonizing electricity and transport) and policies (regulations that phase out coal plants and gasoline vehicles, carbon tariffs). Rather than feeling paralyzed and pursuing ineffective

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efforts, we can all make a few key changes in our lifestyles to reduce emissions, to contribute to the urgently needed affordable energy transition in developed and developing countries. More importantly, Jaccard shows how to distinguish climate-sincere from insincere politicians and increase the chance of

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electing and sustaining these leaders in power. In combining the personal and the political, The Citizen's Guide to Climate Success offers a clear and simple strategic path to solving the greatest problem of our times. A PDF version of this title is also available as Open Access on Cambridge Core at doi.org/10.1017/9781108783453.

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This book discusses energy efficient buildings and the role they play in our efforts to address climate change, energy consumption and greenhouse gas emissions by considering buildings and the construction sector's unique position along a critical path to decarbonisation from a multi-perspective and holistic

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viewpoint. Topics covered in the book range from daylighting, building topology comparison, building envelope design, zero energy homes in hot arid regions, life-cycle considerations and energy efficiency analysis to managing energy demand through equipment selection. Each chapter addresses an important aspect of energy

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efficient building and serves as a vital building block towards constructing a timely and relevant body of knowledge in energy efficient buildings.

Energy Efficiency in Electric Motors, Drives, Power Converters and Related Systems

Real Prospects for Energy Efficiency in

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the United States

For Everyone who Uses Energy, Pays for Utilities, Controls Energy Usage, Designs and Builds, is Interested in Energy and Environmental Preservation

Blueprints for Data Center Optimization

Energy Efficiency in the Urban Environment is a study of energy crisis,

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urbanisation, and climate change, as well as a discussion of how to combat these global challenges. With a special focus on Egypt, this book addresses the macroscale of urbanism from the perspective of city dwellers' quality of life, and explores the microscale of buildings and the perspective of

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ensuring indoor air quality within the boundaries of energy efficiency.

Offering an integrated view of energy systems and urban planning supported by extensive data, references, and case studies, this text: Examines the energy efficiency performance of cities following sustainable urbanism

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principles Investigates how informal areas in developing countries achieve sustainable development Presents energy-efficient urban planning as a tool for improving city energy performance Proposes the development of a common procedure for obtaining an energy performance certificate

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Calculates the energy performance of buildings, accounting for heating/cooling systems and other variables Energy Efficiency in the Urban Environment demonstrates the importance of implementing an energy performance directive to aid energy savings in large buildings and set

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regulations for energy-efficient designs based on standard calculation methods. This book provides engineers working with sustainable energy systems, urban planners needing information on energy systems and optimisation, and professors and students of engineering, environmental science, and urban

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planning with a valuable reference on energy sustainability.

Energy Efficient Servers: Blueprints for Data Center Optimization introduces engineers and IT professionals to the power management technologies and techniques used in energy efficient servers. The book includes a deep

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examination of different features used in processors, memory, interconnects, I/O devices, and other platform components. It outlines the power and performance impact of these features and the role firmware and software play in initialization and control. Using examples from cloud, HPC, and

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enterprise environments, the book demonstrates how various power management technologies are utilized across a range of server utilization. It teaches the reader how to monitor, analyze, and optimize their environment to best suit their needs. It shares optimization techniques used by

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data center administrators and system optimization experts at the world's most advanced data centers.

Handbook of Energy Efficiency in Buildings: A Life Cycle Approach offers a comprehensive and in-depth coverage of the subject with a further focus on the Life Cycle. The editors, renowned

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academics, invited a diverse group of researchers to develop original chapters for the book and managed to well integrate all contributions in a consistent volume. Sections cover the role of the building sector on energy consumption and greenhouse gas emissions, international technical

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standards, laws and regulations, building energy efficiency and zero energy consumption buildings, the life cycle assessment of buildings, from construction to decommissioning, and other timely topics. The multidisciplinary approach to the subject makes it valuable for

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researchers and industry based Civil, Construction, and Architectural Engineers. Researchers in related fields as built environment, energy and sustainability at an urban scale will also benefit from the books integrated perspective. Presents a complete and thorough coverage of energy efficiency

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in buildings Provides an integrated approach to all the different elements that impact energy efficiency Contains coverage of worldwide regulation