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KEY=30GT - VALERIE MOLLY

Sustainable Energy--without the Hot Air

Uit Cambridge Limited Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been skewed by various factors and discussing alternate forms of energy that can and should be used.

Current Therapy in Endodontics

John Wiley & Sons Dentistry has been undergoing enormous changes, and the field of endodontics has certainly been at the forefront. Recent advances in technology, materials, and equipment have changed the way endodontics is practiced today, thereby facilitating treatments with greater efficiency, precision, and success, ultimately leading to better outcomes. Current Therapy in Endodontics encompasses the recent discoveries and applications for this field in one clinically relevant volume. Evidence-based presentation of recent advances in the field of endodontics Objective comparison of materials and instruments on the market Tables present key data and instruction for quick viewing and comprehension

Our Energy Future

Resources, Alternatives and the Environment

John Wiley & Sons Presents an overview on the different aspects of the energy value chain and discusses the issues that future energy is facing This book covers energy and the energy policy choices which face society. The book presents easy-to-grasp information and analysis, and includes statistical data for energy production, consumption and simple formulas. Among the aspects considered are: science, technology, economics and the impact on health and the environment. In this new edition two new chapters have been added: The first new chapter deals with unconventional fossil fuels, a resource which has become very important from the economical point of view, especially in the United States. The second new chapter presents the applications of nanotechnology in the energy domain. Provides a global vision of available and potential energy sources Discusses advantages and drawbacks to help prepare current and future generations to use energy differently Includes new chapters covering unconventional fossil fuels and nanotechnology as new energy Our Energy Future: Resources, Alternatives and the Environment, Second Edition, is written for professionals, students, teachers, decision-makers and politicians involved in the energy domain and interested in environmental issues.

Ironmaking and Steelmaking Processes Greenhouse Emissions, Control, and Reduction

Springer This book describes improvements in the iron and steel making process in the past few decades. It also presents new and improved solutions to producing high quality products with low greenhouse emissions. In addition, it examines legislative regulations regarding greenhouse emissions all around the world and how to control these dangerous emissions in iron and steel making plants.

Carbon Capture

Springer Science & Business Media This book approaches the energy science sub-field carbon capture with an interdisciplinary discussion based upon fundamental chemical concepts ranging from thermodynamics, combustion, kinetics, mass transfer, material properties, and the relationship between the chemistry and process of carbon capture technologies. Energy science itself is a broad field that spans many disciplines -- policy, mathematics, physical chemistry, chemical engineering, geology, materials science and mineralogy -- and the author has selected the material, as well as end-of-chapter problems and policy discussions, that provide the necessary tools to interested students.

The Changing Carbon Cycle

A Global Analysis

Springer Science & Business Media The United States Government, cognizant of its responsibilities to future generations, has been sponsoring research for nine years into the causes, effects, and potential impacts of increased concentrations of carbon dioxide (CO₂) in the atmosphere. Agencies such as the National Science Foundation, National Oceanic and Atmospheric Administration, and the U.S. Department of Energy (DOE) cooperatively spent about \$100 million from FY 1978 through FY 1984 directly on the study of CO₂. The DOE, as the lead government agency for coordinating the government's research efforts, has been responsible for about 60% of these research efforts. William James succinctly defined our purpose when he stated science must be based upon "... irreducible and stubborn facts." Scientific knowledge can and will reduce the present significant uncertainty surrounding our understanding of the causes, effects, and potential impacts of increasing atmospheric CO₂. We have come far during the past seven years in resolving some underlying doubts and in narrowing the ranges of disagreement. Basic concepts have become less murky. Yet, much more must be accomplished; more irreducible and stubborn facts are needed to reduce the uncertainties so that we can improve our knowledge base. Uncertainty can never be reduced to zero. However, with a much improved knowledge base, we will be able to learn, understand, and be in a position to make decisions.

Slaying the Sky Dragon

Stairway Press Compelling, easy-to-read, and written by internationally recognized experts in applied science, this volume destroys the human-caused global warming theory and clears the innocent carbon dioxide molecule of all the heinous crimes it is accused of.

Sustainable Energy

Choosing Among Options

MIT Press Evaluates trade-offs and uncertainties inherent in achieving sustainable energy, analyzes the major energy technologies, and provides a framework for assessing policy options.

Heat Conduction

John Wiley & Sons The long-awaited revision of the bestseller on heat conduction Heat Conduction, Third Edition is an update of the classic text on heat conduction, replacing some of the coverage of numerical methods with content on micro- and nanoscale heat transfer. With an emphasis on the mathematics and underlying physics, this new edition has considerable depth and analytical rigor, providing a systematic framework for each solution scheme with attention to boundary conditions and energy conservation. Chapter coverage includes: Heat conduction fundamentals Orthogonal functions, boundary value problems, and the Fourier Series The separation of variables in the rectangular coordinate system The separation of variables in the cylindrical coordinate system The separation of variables in the spherical coordinate system Solution of the heat equation for semi-infinite and infinite domains The use of Duhamel's theorem The use of Green's function for solution of heat conduction The use of the Laplace transform One-dimensional composite medium Moving heat source problems Phase-change problems Approximate analytic methods Integral-transform technique Heat conduction in anisotropic solids Introduction to microscale heat conduction In addition, new capstone examples are included in this edition and extensive problems, cases, and examples have been thoroughly updated. A solutions manual is also available. Heat Conduction is appropriate reading for students in mainstream courses of conduction heat transfer, students in mechanical engineering, and engineers in research and design functions throughout industry.

Solar Cells and Modules

Springer Nature This book gives a comprehensive introduction to the field of photovoltaic (PV) solar cells and modules. In thirteen chapters, it addresses a wide range of topics including the spectrum of light received by PV devices, the basic functioning of a solar cell, and the physical factors limiting the efficiency of solar cells. It places particular emphasis on crystalline silicon solar cells and modules, which constitute today more than 90 % of all modules sold worldwide. Describing in great detail both the manufacturing process and resulting module performance, the book also touches on the newest developments in this sector, such as Tunnel Oxide Passivated Contact (TOPCON) and heterojunction modules, while dedicating a major chapter to general questions of module design and fabrication. Overall, it presents the essential theoretical and practical concepts of PV solar cells and modules in an easy-to-understand manner and discusses current challenges facing the global research and development community.

Thorium

Energy, Cheaper Than Than Coal

Createspace Independent Pub Thorium energy can help check CO2 and global warming, cut deadly air pollution, provide inexhaustible energy, and increase human prosperity. Our world is beset by global warming, pollution, resource conflicts, and energy poverty. Millions die from coal plant emissions. We war over mideast oil. Food supplies from sea and land are threatened. Developing nations' growth exacerbates the crises. Few nations will adopt carbon taxes or energy policies against their economic self-interests to reduce global CO2 emissions. Energy cheaper than coal will dissuade all nations from burning coal. Innovative thorium energy uses economic persuasion to end the pollution, to provide energy and prosperity to developing nations, and to create energy security for all people for all time. "This book presents a lucid explanation of the workings of thorium-based reactors. It is must reading for anyone interested in our energy future." Leon Cooper, Brown University physicist and 1972 Nobel laureate for superconductivity "As our energy future is essential I can strongly recommend the book for everybody interested in this most significant topic." George Olah, 1994 Nobel laureate for carbon chemistry

Pearson Physics

Sustainability

A Comprehensive Foundation

With "Sustainability: A Comprehensive Foundation," first and second-year college students are introduced to this expanding new field, comprehensively exploring the essential concepts from every branch of knowledge - including engineering and the applied arts, natural and social sciences, and the humanities. As sustainability is a multi-disciplinary area of study, the text is the product of multiple authors drawn from the diverse faculty of the University of Illinois: each chapter is written by a recognized expert in the field.

Advances in Finite Time Thermodynamics

Analysis and Optimization

Nova Publishers Over 170 years ago, Sadi Carnot, a French engineer, published his famous article "Reflections on the motive power of fire" and established a new field of science: classical thermodynamics. Since 1985, the scholars in the Naval University of Engineering (from 1949 to 1998) have been making the research work in the field of finite time thermodynamics. This multi-authored book deals with the recent advances of finite time thermodynamics in the Naval University of Engineering. It illustrates how the gap between thermodynamics, heat transfer, and fluid mechanics is bridged. It also illustrates how the gap between physics and engineering is bridged. The readers should find the papers informative and useful for analysis and design of thermodynamic systems with improved performance. The authors hope that this collection of work devoted to finite thermodynamics will provide encouragement for further research in the field.

Clean Ironmaking and Steelmaking Processes

Efficient Technologies for Greenhouse Emissions Abatement

Springer This book describes the available technologies that can be employed to reduce energy consumption and greenhouse emissions in the steel- and ironmaking industries. Ironmaking and steelmaking are some of the largest emitters of carbon dioxide (over 2Gt per year) and have some of the highest energy demand (25 EJ per year) among all industries; to help mitigate this problem, the book examines how changes can be made in energy efficiency, including energy consumption optimization, online monitoring, and energy audits. Due to negligible regulations and unparalleled growth in these industries during the past 15-20 years, knowledge of best practices and innovative technologies for greenhouse gas remediation is paramount, and something this book addresses. Presents the most recent technological solutions in productivity analyses and dangerous emissions control and reduction in steelmaking plants; Examines the energy saving and emissions abatement efficiency for potential solutions to emission control and reduction in steelmaking plants; Discusses the application of the results of research conducted over the last ten years at universities, research centers, and industrial institutions.

Encyclopedia of Tribology

Springer TRIBOLOGY - the study of friction, wear and lubrication - impacts almost every aspect of our daily lives. The Springer Encyclopedia of Tribology is an authoritative and comprehensive reference covering all major aspects of the science and engineering of tribology that are relevant to researchers across all engineering industries and related scientific disciplines. This is the first major reference that brings together the science, engineering and technological aspects of tribology of this breadth and scope in a single work.

Developed and written by leading experts in the field, the Springer Encyclopedia of Tribology covers the fundamentals as well as advanced applications across material types, different length and time scales, and encompassing various engineering applications and technologies. Exciting new areas such as nanotribology, tribochemistry and biotribology have also been included. As a six-volume set, the Springer Encyclopedia of Tribology comprises 1630 entries written by authoritative experts in each subject area, under the guidance of an international panel of key researchers from academia, national laboratories and industry. With alphabetically-arranged entries, concept diagrams and cross-linking features, this comprehensive work provides easy access to essential information for both researchers and practicing engineers in the fields of engineering (aerospace, automotive, biomedical, chemical, electrical, and mechanical) as well as materials science, physics, and chemistry.

Accepted Meat and Poultry Equipment

Process Heat Transfer

Echo Point Books & Media This classic text is an exploration of the practical aspects of thermodynamics and heat transfer. It was designed for daily use and reference for system design and for troubleshooting common engineering problems-an indispensable resource for practicing process engineers.

Empower

What Happens when Students Own Their Learning

Impress, LP In Empower, A.J. Juliani and John Spencer provide teachers, coaches, and administrators with a roadmap that will inspire innovation, authentic learning experiences, and practical ways to empower students to pursue their passions while in school. Empower will provide ways to overcome challenges and turn them into opportunities for our learners.

Ten Technologies to Save the Planet

Energy Options for a Low-Carbon Future

Greystone Books Ltd Respected, authoritative, award-winning author Chris Goodall tackles global warming reversal in this engaging and balanced book. Ten Technologies to Save the Planet -- popular science writing at its most crucial -- is arguably the most readable and comprehensive overview of large-scale solutions to climate change available. Goodall profiles ten technologies with the potential to slash global greenhouse emissions, explaining how they work and telling the stories of the inventors, scientists, and entrepreneurs who are driving them forward. Some of Goodall's selections, such as the electric car, are familiar. Others, like algae and charcoal, are more surprising. Illustrated with black-and-white photos and simple charts, Ten Technologies to Save the Planet combines cutting-edge analysis with straightforward explanations about pros and cons, and debunks myths along the way.

Introduction to Carbon Capture and Sequestration

World Scientific The aim of the book is to provide an understanding of the current science underpinning Carbon Capture and Sequestration (CCS) and to provide students and interested researchers with sufficient background on the basics of Chemical Engineering, Material Science, and Geology that they can understand the current state of the art of the research in the field of CCS. In addition, the book provides a comprehensive discussion of the impact of CCS on the energy landscape, society, and climate as these topics govern the success of the science being done in this field. The book is aimed at undergraduate students, graduate students, scientists, and professionals who would like to gain a broad multidisciplinary view of the research that is being carried out to solve one of greatest challenges of our generation. Contents:Energy and ElectricityThe Atmosphere and Climate

ModelingThe Carbon CycleIntroduction to Carbon CaptureAbsorptionAdsorptionMembranesIntroduction to Geological SequestrationFluids and RocksLarge-Scale Geological Carbon SequestrationLand Use and Geo-EngineeringList of SymbolsCredits Readership: Students taking courses on environmental sciences and research level individuals who are interested in environmental issues related to CCS. Key Features:The first comprehensive textbook on Carbon Capture and Sequestration (CCS)A comprehensive discussion on the science of CCS and its impact on society and climateA multidisciplinary approach to CCS by the leading US research centers on CCSKeywords:Carbon Capture;Carbon Storage;Carbon Sequestration;Gas Separations

Engineering Economic Analysis

Praised for its accessible tone and extensive problem sets, this trusted text familiarizes students with the universal principles of engineering economics. This essential introduction features a wealth of specific Canadian examples and has been fully updated with new coverage of inflation and environmental stewardship as well as a new chapter on project management.

Entrepreneurship

Excel Books India

Out of Gas

The End of the Age of Oil

W. W. Norton & Company The author looks at the specifics of oil reserves and the petroleum industry and speculates on what will happen when the well runs dry.

Materials Science of Membranes for Gas and Vapor Separation

John Wiley & Sons Materials Science of Membranes for Gas and Vapor Separation is a one-stop reference for the latest advances in membrane-based separation and technology. Put together by an international team of contributors and academia, the book focuses on the advances in both theoretical and experimental materials science and engineering, as well as progress in membrane technology. Special attention is given to comparing polymer and inorganic/organic separation and other emerging applications such as sensors. This book aims to give a balanced treatment of the subject area, allowing the reader an excellent overall perspective of new theoretical results that can be applied to advanced materials, as well as the separation of polymers. The contributions will provide a compact source of relevant and timely information and will be of interest to government, industrial and academic polymer chemists, chemical engineers and materials scientists, as well as an ideal introduction to students.

A Guide to Ship Repair Estimates in Man-hours

Butterworth-Heinemann Expert ship surveyor Don Butler shares a lifetime's ship repair costing experience in this unique resource for accurate cost estimation and planning Includes hard to come by information on typical ship repair labor expectations for accurate man-hour forecasting and cost estimation Produced for marine engineers and marine industry professionals to aid with repair specification and negotiation, helping you to plan work and budgets more reliably Uses man-hours as opposed to particular rates or currencies, providing a long-term model for pricing regardless of location, rate fluctuation or inflation Bringing together otherwise scattered details on specific repair and dry-docking activities, this invaluable guide will save you time and improve the accuracy of your ship repair estimates. Don't plan or commission work without it! Don Butler is a fellow of the Institute of Marine Engineers and a member of Society of Consulting Marine Engineers and Ship Surveyors, UK. Made up of very hard to come by information on typical ship repair labor expectations for accurate man-hour forecasting and cost estimation Produced for marine engineers and marine industry professionals to save time, aid in repair negotiation and help companies to plan more reliably Man-hour listings assist in long-term pricing, meaning the book content remains valid regardless of currency, rate fluctuation or inflation

Lubrication Theory and Its Application

Westinghouse Air Compressors

Pittsburgh : Westinghouse

The National Shipbuilding Research Program

Annual Report 1992

This is the second published annual report of the National Shipbuilding Research Program. It is intended to publicize the program throughout the American shipbuilding, ship repair, and marine supplier industries. It is our hope that the information contained herein will result in an increased industry interest and participation in the program, especially by the smaller shipyards and those specializing in ship overhaul and repair. The ultimate objective of this publication is to improve the process by which technology is transferred to industrial practitioners, managers, and craftsmen who have the responsibility for making their firms more competitive in the world marketplace. We also solicit their help in focusing our planning to meet the present and future needs of the industry.

Launch

Using Design Thinking to Boost Creativity and Bring Out the Maker in Every Students

Something happens in students when they define themselves as makers and inventors and creators. They discover powerful skills-problem-solving, critical thinking, and imagination-that will help them shape the world's future ... our future. If that's true, why isn't creativity a priority in more schools today? Educators John Spencer and A.J. Juliani know firsthand the challenges teachers face every day: School can be busy. Materials can be scarce. The creative process can seem confusing. Curriculum requirements can feel limiting. Those challenges too often bully creativity, pushing it to the side as an "enrichment activity" that gets put off or squeezed into the tiniest time block. We can do better. We must do better if we're going to prepare students for their future. LAUNCH: Using Design Thinking to Boost Creativity and Bring Out the Maker in Every Student provides a process that can be incorporated into every class at every grade level ... even if you don't consider yourself a "creative teacher." And if you dare to innovate and view creativity as an essential skill, you will empower your students to change the world-starting right now. Look, Listen, and Learn Ask Lots of Questions Understand the Problem or Process Navigate Ideas Create Highlight What's Working and Failing Are you ready to LAUNCH?

How to Choose a Medical Specialty

W.B. Saunders Company

Odor and VOC Control Handbook

McGraw-Hill Professional Publishing Capitalize on this first complete guide to controlling odors generated by industrial sources. Get the engineering skills and information you need to successfully solve odor emission problems at your facility. This landmark reference offers you comprehensive guidance on treating odors and volatile organic compounds (VOCs) generated by a variety of industrial sources, including wastewater, food, and chemical process plants. This vital resource also provides you with detailed odor-control case studies--and features material on practical issues such as costs, public relations, insurance, health effects, pollution prevention methods, and environmental information.

Teaching Movement & Dance

A Sequential Approach to Rhythmic Movement

High/Scope Foundation Grade level: 4, 5, 6, 7, 8, 9, 10, 11, 12, e, i, s, t.