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The Purple Cloud Springer Science & Business Media

Environmental and political concerns are generating a growing interest in alternative engine fuels such as biodiesel. Biodiesel is a renewable energy source produced from natural oils and fats, which can be used as a substitute for petroleum diesel without the need for diesel engine modification. In addition to being biodegradable and non-toxic, biodiesel is also essentially free of sulfur and aromatics, producing lower exhaust emissions than conventional gasoline whilst providing similar properties in terms of fuel efficiency. The greatest drawback of using pure vegetable oils as fuels are their high viscosity, although this can be reduced by techniques such as dilution, micro-emulsification, pyrolysis or transesterification. Of these processes, the transesterification of vegetable oil triglycerides in supercritical methanol has been shown to be particularly promising, producing high yields of low-viscosity methyl esters without the need of a catalyst. Furthermore, these methyl esters have a considerably lower flash point than that of pure vegetable oils. Biodiesel: A Realistic Fuel Alternative for Diesel Engines describes the production and characterisation of biodiesel, along with current experimental research work in the field. The book will be of great interest to advanced undergraduates, postgraduates and researchers in renewable energy, as well as to fuel engineers.

Farm Advertising Springer Science & Business Media
This book provides a detailed analysis of Islamic juristic writings on the topic of rape and argues that classical Islamic jurisprudence contained nuanced, substantially divergent doctrines of sexual violation as a punishable crime. The work centers on legal discourses of the first six centuries of Islam, the period during which these discourses reached their classical forms, and chronicles the juristic conflict over whether or not to provide monetary compensation to victims. Along with tracing the emergence and development of this conflict over time, Hina Azam explains evidentiary ramifications of each of the two competing positions, which are examined through debates between the Hanafite and Maliki schools of law. This study examines several critical themes in Islamic law, such as the relationship between sexuality and property, the tension between divine rights and personal rights in sex crimes, and justifications of victim's rights afforded by the two competing doctrines.

Organic Chemistry John Wiley & Sons

This book covers the theory and practice of spectrum and network measurements in electronic systems. Areas covered include: decibels, Fourier analysis, FFT and swept analyzers, modulated signals, signal distortion, noise, pulsed waveforms, averaging and filtering, transmission lines and measurement connection techniques, two-port network theory, network analyzers, and instrument performance and specifications. Noble Publishing has reprinted the 1993 volume (from Prentice Hall) as a "classic" in the field. Witte works for Agilent Technologies. c. Book News Inc.

Chemical Weapons Springer Nature

The frequent use of well known critical data handbooks like Beilstein, Gmelin and Landolt-Bomstein is impeded by the fact that merely larger libraries - often far away from the scientist's working place - can afford such precious collections. To satisfy an urgent need of many scientists working in the field of semiconductor physics for having at their working place a comprehensive, high quality, but cheap collection of at least the basic data of their field of interest this volume contains the most important data of semiconductors. All data were compiled from

information on semiconductors presented on more than 6000 pages in various volumes of the New Series of Landolt-Bomstein. We hope to meet the needs of the community of semiconductor physicists with this volume, forming a bridge between the laboratory and additional information sources in the libraries. The Editor Marburg, January 1996

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IBM AIX Version 7.1 Differences Guide G3b Press

"If now a swell from the Deep has swept over this planetary ship of earth, and I, who alone chanced to find myself in the furthest stern, as the sole survivor of her crew... What then, my God, shall I do?" The Purple Cloud is widely hailed as a masterpiece of science fiction and one of the best "last man" novels ever written. A deadly purple vapor passes over the world and annihilates all living creatures except one man, Adam Jefferson. He embarks on an epic journey across a silent and devastated planet, an apocalyptic Robinson Crusoe putting together the semblance of a normal life from the flotsam and jetsam of his former existence. As he descends into madness over the years, he becomes increasingly aware that his survival was no accident and that his destiny - and the fate of the human race - are part of a profound, cosmological plan.

Understanding Options for Agricultural Production Springer

This open access book relates to the III Annual Conference hosted by The Ministry of Education and Science of the Russian Federation in December 2016. This event has summarized, analyzed and discussed the interim results, academic outputs and scientific achievements of the Russian Federal Targeted Programme " Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014 – 2020. " It contains 75 selected papers from 6 areas considered priority by the Federal Targeted Programme: computer science, ecology & environment sciences; energy and energy efficiency; lifesciences; nanoscience & nanotechnology and transport & communications. The chapters report the results of the 3-years research projects supported by the Programme and finalized in 2016.

Indian Food Composition Tables Tony Northrup

The top-rated and top-selling photography ebook since 2012 and the first ever Gold Honoree of the Benjamin Franklin Digital Award, gives you five innovations no other book offers: Free video training. 9+ HOURS of video training integrated into the book ' s content (requires Internet access). Travel around the world with Tony and Chelsea as they teach you hands-on. Appendix A lists the videos so you can use the book like an inexpensive video course. Classroom-style teacher and peer help. After buying the book, you get access to the private forums on this site, as well as the private Stunning Digital Photography Readers group on Facebook where you can ask the questions and post pictures for feedback from Tony, Chelsea, and other readers. It ' s like being able to raise your hand in class and ask a question! Instructions are in the introduction. Lifetime updates. This book is regularly updated with new content (including additional

videos) that existing owners receive for free. Updates are added based on reader feedback and questions, as well as changing photography trends and new camera equipment. This is the last photography book you ' ll ever need. Hands-on practices. Complete the practices at the end of every chapter to get the real world experience you need. 500+ high resolution, original pictures. Detailed example pictures taken by the author in fifteen countries demonstrate both good and bad technique. Many pictures include links to the full-size image so you can zoom in to see every pixel. Most photography books use stock photography, which means the author didn ' t even take them. If an author can ' t take his own pictures, how can he teach you? In this book, Tony Northrup (award-winning author of more than 30 how-to books and a professional portrait, wildlife, and landscape photographer) teaches the art and science of creating stunning pictures. First, beginner photographers will master: Composition Exposure Shutter speed Aperture Depth-of-field (blurring the background) ISO Natural light Flash Troubleshooting blurry, dark, and bad pictures Pet photography Wildlife photography (mammals, birds, insects, fish, and more) Sunrises and sunsets Landscapes Cityscapes Flowers Forests, waterfalls, and rivers Night photography Fireworks Raw files HDR Macro/close-up photography Advanced photographers can skip forward to learn the pro ' s secrets for: Posing men and women. including corrective posing (checklists provided) Portraits (candid, casual, formal, and underwater) Remotely triggering flashes Using bounce flash and flash modifiers Using studio lighting on any budget Building a temporary or permanent studio at home Shooting your first wedding High speed photography Location scouting/finding the best spots and times Planning shoots around the sun and moon Star trails (via long exposure and image stacking) Light painting Eliminating noise Focus stacking for infinite depth-of-field Underwater photography Getting close to wildlife Using electronic shutter triggers Photographing moving cars Photographing architecture and real estate Case Studies in Project, Program, and Organizational Project Management IBM Redbooks An exploration of current and possible future hydrogen storage technologies, written from an industrial perspective. The book describes the fundamentals, taking into consideration environmental, economic and safety aspects, as well as presenting infrastructure requirements, with a special focus on hydrogen applications in production, transportation, military, stationary and mobile storage. A comparison of the different storage technologies is also included, ranging from storage of pure hydrogen in different states, via chemical storage right up to new materials already under development. Throughout, emphasis is placed on those technologies with the potential for commercialization.

Biodiesel Elsevier

Under the direction of John Enderle, Susan Blanchard and Joe Bronzino, leaders in the field have contributed chapters on the most relevant subjects for biomedical engineering students. These chapters coincide with courses offered in all biomedical engineering programs so that it can be used at different levels for a variety of courses of this evolving field. Introduction to Biomedical Engineering, Second Edition provides a historical perspective of the major developments in the biomedical field. Also contained within are the fundamental principles underlying biomedical engineering design, analysis, and modeling procedures. The numerous examples, drill problems and exercises are used to reinforce concepts and develop problem-solving skills making this book an invaluable tool for all biomedical students and engineers. New to this edition: Computational Biology, Medical Imaging, Genomics and Bioinformatics. * 60% update from first edition to reflect the developing field of biomedical engineering * New chapters on Computational Biology, Medical Imaging, Genomics, and Bioinformatics * Companion site: <http://intro-bme-book.bme.uconn.edu/> * MATLAB and SIMULINK software used throughout to model and simulate dynamic systems * Numerous self-study homework problems and thorough cross-referencing for easy use

Power Farming Springer Science & Business Media

The ever expanding market need for information on how to apply project management principles and the PMBOK® contents to day-to-day business situations has been met by our case studies book by Harold Kerzner. That book was a spin-off from and ancillary to his best selling text but has gained a life of its own beyond adopters of that textbook. All indications are that the market is hungry for more cases while our own need to expand the content we control, both in-print and online would benefit from such an expansion of project management "case content". The authors propose to produce a book of cases that compliment Kerzner's book. A book that offers cases beyond the general project management areas and into PMI®'s growth areas of program management and organizational project management. The book will be structured to follow the PMBOK in coverage so that it can not only be used to supplement project management courses, but also for self study and training courses for the PMP® Exam. (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute,

Inc.)

The Radio Amateur's Handbook Legare Street Press

Chemical Reactor Design and Control uses process simulators like Matlab®, Aspen Plus, and Aspen Dynamics to study the design of chemical reactors and their dynamic control. There are numerous books that focus on steady-state reactor design. There are no books that consider practical control systems for real industrial reactors. This unique reference addresses the simultaneous design and control of chemical reactors. After a discussion of reactor basics, it: Covers three types of classical reactors: continuous stirred tank (CSTR), batch, and tubular plug flow Emphasizes temperature control and the critical impact of steady-state design on the dynamics and stability of reactors Covers chemical reactors and control problems in a plantwide environment Incorporates numerous tables and shows step-by-step calculations with equations Discusses how to use process simulators to address diverse issues and types of operations This is a practical reference for chemical engineering professionals in the process industries, professionals who work with chemical reactors, and students in undergraduate and graduate reactor design, process control, and plant design courses.

Post-heroic leadership Simon and Schuster

The first premise of this book is that farmers need access to options for improving their situation. In agricultural terms, these options might be management alternatives or different crops to grow, that can stabilize or increase household income, that reduce soil degradation and dependence on off-farm inputs, or that exploit local market opportunities. Farmers need a facilitating environment, in which affordable credit is available if needed, in which policies are conducive to judicious management of natural resources, and in which costs and prices of production are stable. Another key ingredient of this facilitating environment is information: an understanding of which options are viable, how these operate at the farm level, and what their impact may be on the things that farmers perceive as being important. The second premise is that systems analysis and simulation have an important role to play in fostering this understanding of options, traditional field experimentation being time-consuming and costly. This book summarizes the activities of the International Benchmark Sites Network for Agrotechnology Transfer (IBSNAT) project, an international initiative funded by the United States Agency for International Development (USAID). IBSNAT was an attempt to demonstrate the effectiveness of understanding options through systems analysis and simulation for the ultimate benefit of farm households in the tropics and subtropics. The idea for the book was first suggested at one of the last IBSNAT group meetings held at the University of Hawaii in 1993.

Sexual Violation in Islamic Law OECD Publishing

The book is focused on the use of functional oxide and nitride films to enlarge the application range of MEMS (microelectromechanical systems), including micro-sensors, micro-actuators, transducers, and electronic components for microwaves and optical communications systems. Applications, emerging applications, fabrication technology and functioning issues are presented and discussed. The book covers the following topics: Part A: Applications and devices with electroceramic-based MEMS: Chemical microsensors Microactuators based on thin films Micromachined ultrasonic transducers Thick-film piezoelectric and magnetostrictive devices Pyroelectric microsystems RF bulk acoustic wave resonators and filters High frequency tunable devices MEMS for optical functionality Part B: Materials, fabrication technology, and functionality: Ceramic thick films for MEMS Piezoelectric thin films for MEMS Materials and technology in thin films for tunable high frequency devices Permittivity, tunability and loss in ferroelectrics for reconfigurable high frequency electronics Microfabrication of piezoelectric MEMS Nano patterning methods for electroceramics Soft lithography emerging techniques The book is addressed to engineers, scientists and researchers of various disciplines, device engineers, materials engineers, chemists, physicists and microtechnologists who are working and/or interested in this fast growing and highly promising field. The publication of this book follows a Special Issue on electroceramic-based MEMS that was published in the Journal of Electroceramics at the beginning of 2004. The ten invited papers of that special issue were adapted by the authors into chapters of the present book and five additional chapters were added.

Hydrogen and Fuel Cells Springer Science & Business Media

This IBM® Redbooks® publication focuses on the enhancements to IBM AIX® Version 7.1 Standard Edition. It is intended to help system administrators, developers, and users understand these enhancements and evaluate potential benefits in their own environments. AIX Version 7.1 introduces many new features, including: - Domain Role Based Access Control - Workload Partition enhancements - Topas performance tool enhancements - Terabyte segment support - Cluster Aware AIX functionality AIX Version 7.1 offers many other new enhancements, and you can explore them all in this publication. For clients who are not familiar with the enhancements of AIX through Version 5.3, a companion publication, AIX Version 6.1 Differences Guide, SG24-7559, is available.

Nuclear power reactor instrumentation systems handbook. 2 Cambridge University Press

Revit Essentials for Architecture combines a straightforward, reader-friendly style with detailed project-focused exercises that encourage you to learn by doing. Gain practical, firsthand experience with Autodesk(R) Revit(R) software purpose-built for Building Information Modeling (BIM)

Introduction to Biomedical Engineering John Wiley & Sons

This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in

the "public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Service Manual John Wiley & Sons

Hydrogen and fuel cells are vital technologies to ensure a secure and CO2-free energy future. Their development will take decades of extensive public and private effort to achieve technology breakthroughs and commercial maturity. Government research programs are indispensable for catalyzing the development process. This report maps the IEA countries' current efforts to research, develop and deploy the interlocking elements that constitute a "hydrogen economy", including CO2 capture and storage when hydrogen is produced out of fossil fuels. It provides an overview of what is being done, and by whom, covering an extensive complexity of national government R & D programs. The survey highlights the potential for exploiting the benefits of the international cooperation. This book draws primarily upon information contributed by IEA governments. In virtually all the IEA countries, important R & D and policy efforts on hydrogen and fuel cells are in place and expanding. Some are fully-integrated, government-funded programs, some are a key element in an overall strategy spread among multiple public and private efforts. The large amount of information provided in this publication reflects the vast array of technologies and logistics required to build the "hydrogen economy."--Publisher description.

Case Service Manual Routledge

As today's spark-ignition and diesel engines have to fulfil constantly increasing demands with regard to CO2 reduction, emissions, weight and lifetime, detailed knowledge of the components of an internal combustion engine is absolutely essential. Automotive engineers can no longer survive without such expertise, regardless of whether they are involved in design, development, testing or maintenance. This text book provides answers to questions relating to the design, production and machining of cylinder components in a comprehensive technical analysis.

Proceedings of the Scientific-Practical Conference "Research and Development - 2016" Springer Science & Business Media

This book presents selected peer-reviewed papers from the International Conference on Recent Advancements in Air Conditioning and Refrigeration (RAAR) 2019. The focus is on current research in a very topical area of HVAC technology, which has wide-ranging applications. The topics covered include modern air conditioning and refrigeration practices, environment-friendly refrigerants, high-performance components, computer-assisted design, manufacture, operations and data management, energy-efficient buildings, and application of solar energy to heating and air conditioning. This book is useful for researchers and industry professionals working in the field of heating, air conditioning and refrigeration.

Case Service Manual

Energy security, economic prosperity and environmental protection are challenges for all countries. They are particularly pressing in the transportation sector which still relies almost exclusively on oil. The use of hydrogen as an energy carrier and fuel cells as motive devices in transportation and energy distribution systems are possible solutions. This book provides an analysis of policy responses and hurdles and business opportunities. Information regarding the latest R&D, policy initiatives and private sector plans are assessed from the perspective of the rapidly changing global energy system in the next half century.