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Structural Crashworthiness and Failure DIANE Publishing
The definitive book on mining the Web from the preeminent authority.

Chromic Phenomena 3rd Edition John Wiley & Sons

* Offers detailed description of process chemistry and thermodynamics and product by-product specifications of plants
* Contributors are drawn from the largest petroleum producers in the world, including Chevron, Mobil, Shell, Exxon, UOP, and Texaco * Covers the very latest technologies in the field of petroleum refining processes * Completely updated 3rd Edition features 50% all new material

Control in Power Electronics Springer Science & Business Media
This book discusses how product platform and product family design can be used successfully to increase variety within a product line, shorten manufacturing lead times, and reduce overall costs within a product line. The material serves as a reference and a hands-on guide for practitioners involved in the design, planning and production of products. Real-life case studies that explain the benefits of platform based product development are included.
Mammals and Birds as Bioindicators of Trace Element Contaminations in Terrestrial Environments Springer Science & Business Media

The population explosion that began in the 1960s has been accompanied by a decrease in the quality of the natural environment, e.g. pollution of the air, water and

soil with essential and toxic trace elements. Numerous poisonings of people and animals with highly toxic anthropogenic Hg and Cd in the 20th century prompted the creation of the abiotic environment, mainly in developed countries. However, the system is insufficient for long-term exposure to low concentrations of various substances that are mainly ingested through food and water. This problem could be addressed by the monitoring of sentinels – organisms that accumulate trace elements and as such reflect the rate and degree of environmental pollution. Usually these are long-lived vertebrates – herbivorous, omnivorous and carnivorous birds and mammals, especially game species. This book describes the responses of the sentinels most commonly used in ecotoxicological studies to 17 trace elements.

Electroactive Polymers for Robotic Applications Royal Society of Chemistry

This book covers all the proposed fuel cell systems including PEMFC, SOFC, PAFC, MCFC, regenerative fuel cells, direct alcohol fuel cells, and small fuel cells to replace batteries.

Aligned Carbon Nanotubes Springer Science & Business Media

Concern about the reduced availability and the increased cost of petroleum fuels prompted great efforts in recent years to reduce the fuel consumption of auto mobiles. The ongoing efforts to reduce fuel consumption have addressed many relevant factors, including increased engine performance, reduced friction, use of lightweight materials, and reduced aerodynamic drag. The results of the investigations assessing the various factors

affecting fuel economy have been published in journals, conference proceedings, and in company and government reports. This proliferation of technical information makes it difficult for workers to keep abreast of aU developments. The material presented in this book brings together in a single volume much of the relevant materials, summarizes many of the state-of-the-art theories and data, and provides extensive lists of references. Thus, it is hoped that this book will be a useful reference for specialists and practicing engineers interested in the fuel economy of automobiles. J. C. HILLIARD o. S. SPRINGER vii
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Product Platform and Product Family Design
 Springer Science & Business Media
 This handbook plays a fundamental role in sustainable progress in speech research and development. With an accessible format and with accompanying DVD-Rom, it targets three categories of readers: graduate students, professors and active researchers in academia, and engineers in industry who need to understand or implement some specific algorithms for their speech-related products. It is a superb source of application-oriented, authoritative and comprehensive information about these technologies, this work combines the established knowledge derived from research in such fast evolving disciplines as Signal Processing and Communications, Acoustics, Computer Science and Linguistics. *The Guru Guide to Entrepreneurship* Springer Science & Business Media
 Presents quantitative nat. est. of the magnitude of transport's. impacts on the environ. It is the most comprehensive compilation of environmental and transport. data to date. Addresses all primary modes of transport. (highway, rail, aviation, and maritime transport) and all environ'l. media (air, water, and land resources), and covers the full "life-cycle" of transport., from construction of infrastructure and mfg. of vehicles to disposal of vehicles and parts. The impacts of transport. extend beyond the air quality impacts of vehicle travel. Presents a framework for developing various types of indicators and for categorizing transport. activities that affect the environ. Illustrated.
Thermodynamic Modeling and Materials Data Engineering Springer Science & Business Media

In the Victorian era - or for non-British readers, the mid-to-late nineteenth century - amateur astronomy tended to center on Solar System objects. The Moon and planets, as well as bright comets, were the key objects of interest. The brighter variable stars were monitored, but photography was in its infancy and digital imaging lay a century in the future. Today, at the start of the twenty-first century, amateurs are better equipped than any professionals of the mid-twentieth century, let alone the nineteenth. An amateur equipped with a 30-cm telescope and a CCD camera can easily image objects below magnitude 20 and, from very dark sites, 22 or 23. Such limits would have been within the realm of the 100- and 200-inch reflectors on Mount Wilson and Mount Palomar in the 1950s, but no other observatories. However, even those telescopes took hours to reach such limits, and then the photographic plates had to be developed, fixed, and examined by eye. In the modern era digital images can be obtained in minutes and analyzed 'on the fly' while more images are being downloaded. Developments can be e-mailed to other interested amateurs in real time, during an observing session, so that when a cataclysmic event takes place amateurs worldwide know about it. As recently as the 1980s, even professional astronomers could only dream of such instantaneous communication and proc- sing ability.
Jeremy and the Fantastic Flying Machine Orca Book Publishers
 This book contains the edited versions of the papers presented at the Second International Workshop on Electric and Magnetic Fields held at the Katholieke Universiteit van Leuven (Belgium) in May 1994. This Workshop deals with numerical solutions of electromagnetic problems in real life applications. The topics include coupled problems

(thermal, mechanical, electric circuits), CAD & CAM applications, 3D eddy current and high frequency problems, optimisation and application oriented numerical problems. This workshop was organised jointly by the AIM (Association of Engineers graduated from de Montefiore Electrical Institute) together with the Departments of Electrical Engineering of the Katholieke Universiteit van Leuven (Prof. R. Belmans), the University of Gent (Prof. J. Melkebbek) and the University of Liege (Prof. W. Legros). These laboratories are working together in the framework of the Pole d'Attraction Interuniversitaire - Inter-University Attractie-Pole 51 - on electromagnetic systems led by the University of Liege and the research work they perform covers most of the topics of the Workshop. One of the principal aims of this Workshop was to provide a bridge between the electromagnetic device designers, mainly industrialists, and the electromagnetic field computation developers. Therefore, this book contains a continuous spectrum of papers from application of electromagnetic models in industrial design to presentation of new theoretical developments.
Cataclysmic Cosmic Events and How to Observe Them Springer Science & Business Media
 Exploring how to counteract the world's energy insecurity and environmental pollution, this volume covers the production methods, properties, storage, engine tests, system modification, transportation and distribution, economics, safety aspects, applications, and material compatibility of alternative fuels. The esteemed editor highlights the importance of moving toward alternative fuels and the problems and environmental impact of depending on petroleum products. Each self-contained chapter focuses on a particular fuel source, including vegetable oils, biodiesel, methanol, ethanol, dimethyl ether, liquefied petroleum gas, natural gas, hydrogen, electric, fuel cells, and fuel from nonfood crops.
Indicators of the Environmental Impacts of Transportation John Wiley & Sons
 Are you and your family self-reliant? Will you be able to provide for them and keep them safe? The best way to prepare for the future is not through fancy tools and gadgets-it's experience and knowledge that will best equip

you to handle the unexpected. Everyone begins somewhere, especially with disaster preparedness. In *52 Prepper's Projects*, you'll find a project for every week of the year, designed to start you off with the foundations of disaster preparedness and taking you through a variety of projects that will increase your knowledge in self-reliance and help you acquire the actual know-how to prepare for anything. Self-reliance isn't about building a bunker and waiting for the end of the world. It's about understanding the necessities in life and gaining the knowledge and skill sets that will make you better prepared for whatever life throws your way. *52 Prepper's Projects* is the ultimate instructional guide to preparedness, and a must-have book for those with their eye on the future.

Springer Handbook of Speech Processing Springer Science & Business Media

Focusing on the relationship between structure and properties, this is a well-balanced treatment of the mechanics and the materials science of composites, while not neglecting the importance of processing. This updated second edition contains new chapters on fatigue and creep of composites, and describes in detail how the various reinforcements, the materials in which they are embedded, and of the interfaces between them, control the properties of the composite materials at both the micro- and macro-levels. Extensive use is made of micrographs and line drawings, and examples of practical applications in various fields are given throughout the book, together with extensive references to the literature. Intended for use in graduate and upper-division undergraduate courses, this book will also prove a useful reference for practising engineers and researchers in industry and academia.

Fine Homebuilding Springer Science & Business Media

In view of their promising biological and pharmaceutical activities, natural product inspired and heterocyclic compounds have recently gained a reputation in the field of medicinal chemistry. Over the past decades, intensive

research efforts have been ongoing to understand the synthesis, biochemistry and engineering involved in their preparation and action mechanisms. Several novel natural product derivatives, heterocyclic and other synthetic compounds, have been reported to have shown interesting biological activities including anticancer, antimicrobial, anti-inflammatory, anti-glycemic, anti-allergy and antiviral etc. *Chemistry of Biologically Potent Natural Products and Synthetic Compounds* provides up-to-date information on new developments and most recent medicinal applications of the natural products and derivatives, as well as the chemistry and synthesis of heterocyclic and other related compounds.

Chemistry of Biologically Potent Natural Products and Synthetic Compounds McGraw Hill Professional

Biosensors offer clear and distinct advantages over standard analytical methods for the direct monitoring of environmental pollutants in the field, such as real-time detection with minimum sample preparation and handling. The present book highlights recent advantages that will be of great value to a range of scientists, researchers and students dealing with analytical and environmental chemistry and biosensor technology. It presents recent trends in analytical methodology for the determination of indoor and outdoor pollutants, advances in DNA, biological and recognition-based sensors, examples of biosensors for use in field and water analysis, biosensors based on non-aqueous systems, and recent advances in the miniaturisation and micromachining of biosensors.

Renewing Our Energy Future MDPI

This textbook is appropriate for senior undergraduate and first year graduate students in mechanical and automotive engineering. The contents in this book are presented at a theoretical-practical level. It explains vehicle

dynamics concepts in detail, concentrating on their practical use. Related theorems and formal proofs are provided, as are real-life applications. Students, researchers and practicing engineers alike will appreciate the user-friendly presentation of a wealth of topics, most notably steering, handling, ride, and related components. This book also: Illustrates all key concepts with examples Includes exercises for each chapter Covers front, rear, and four wheel steering systems, as well as the advantages and disadvantages of different steering schemes Includes an emphasis on design throughout the text, which provides a practical, hands-on approach

Composite Materials John Wiley & Sons

This book covers the fundamental properties, modeling, and demonstration of Electroactive polymers in robotic applications. It particularly details artificial muscles and sensors. In addition, the book discusses the properties and uses in robotics applications of ionic polymer-metal composite actuators and dielectric elastomers.

52 Prepper Projects Springer Science & Business Media

The way plants grow and develop organs significantly impacts the overall performance and yield of crop plants. The basic knowledge now available in plant development has the potential to help breeders in generating plants with defined architectural features to improve productivity. Plant translational research effort has steadily increased over the last decade due to the huge increase in the availability of crop genomic resources and Arabidopsis-based sequence annotation systems. However, a consistent gap between fundamental and applied science has yet to be filled. One critical point often brought up is the unreadiness of developmental biologists on one side to foresee agricultural applications for their discoveries, and of the breeders to exploit gene function studies to apply to candidate gene approaches when advantageous on the other. In this book, both developmental

biologists and breeders make a special effort to reconcile research on the basic principles of plant development and organogenesis with its applications to crop production and genetic improvement. Fundamental and applied science contributions intertwine and chase each other, giving the reader different but complementary perspectives from only apparently distant corners of the same world.

Mining the Web Skyhorse

Book Publication Date: Dec 13, 2023. Full color. Introductory Statistics 2e provides an engaging, practical, and thorough overview of the core concepts and skills taught in most one-semester statistics courses. The text focuses on diverse applications from a variety of fields and societal contexts, including business, healthcare, sciences, sociology, political science, computing, and several others. The material supports students with conceptual narratives, detailed step-by-step examples, and a wealth of illustrations, as well as collaborative exercises, technology integration problems, and statistics labs. The text assumes some knowledge of intermediate algebra, and includes thousands of problems and exercises that offer instructors and students ample opportunity to explore and reinforce useful statistical skills.

Plant Development and Organogenesis Springer

The authors were originally brought together to share research and applications through the international Danfoss Professor Programme at Aalborg University in Denmark. Personal computers would be unwieldy and inefficient without power electronic dc supplies. Portable communication devices and computers would also be impractical. High-performance lighting systems, motor controls, and a wide range of industrial controls depend on power electronics. In the near future we can expect strong growth in automotive applications, dc

power supplies for communication systems, portable applications, and high-end converters. We are approaching a time when all electrical energy will be processed and controlled through power electronics somewhere in the path from generation to end use. The most up-to-date information available is presented in the text. Written by a world renowned leader in the field