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Chemical Thermodynamics For Metals And Materials (With Cd-rom For Computer-aided Learning) Organic Chemistry Newnes Electrical Pocket Book Statistics in Criminal Justice System Forensics, Investigation and Response Differential Electrometer Fundamentals of Food Process Engineering Frequency Technology Artificial Intelligence-based Internet of Things Systems Hybrid Electric Vehicles Technical Digest [of The] 1973 International Electron Devices Meeting, December 3,4 and 5, 1973, Washington, D.C. Chemical Engineering Catalog Engineering Education Laser Focus Budget Chemical Engineering Catalog Solar Energy Engineering An Introduction to Ethnic Minority Education in China Unit Operations in Food Processing Plant Adaptations to Phosphate Deficiency Nuclear Science Abstracts Introduction to Scanning Tunneling Microscopy Aviation Week Life Cycle Assessment of Renewable Energy Sources Electrochemistry of Organic Compounds Dr. Dobb's Journal of Software Tools for the Professional Programmer Satellite Towns in Neo-metropolitan Development in India Fossil Energy Update Business Publication Advertising Source Modern Data Modern Data Products, Systems, Services Nuclear Science Abstracts Dr. Dobb's Journal Railway Engineering Vehicle Accident Analysis and Reconstruction Methods Industrial Research Nanoporous Metals for Advanced Energy Technologies The Annual Guides to Graduate Study Advanced Batteries Fundamentals of Information Systems Security

Chinese ethnic minority education is virtually unknown to readers outside China. Based on extensive qualitative and quantitative data, this book examines the basic education policies for ethnic minorities in China and describes policy implementation. It also discusses successful case studies, restrictive factors, existing gaps and challenges as well as the associated problems, highlighting teacher training and the role of policymakers. The authors propose recommendations to address the challenges faced by Chinese education, and to develop and implement culturally sensitive basic education for ethnic minorities in the country. Offering a rare glimpse inside minority schools in different parts of the country, the book appeals to educators, scholars, decision-makers and anyone interested in diversity education (intercultural, multicultural, global education). Ten years after the publication of the first edition of Fundamentals of Food Process Engineering, there have been significant changes in both food science education and the food industry itself. Students now in the food science curriculum are generally better prepared mathematically than their counterparts two decades ago. The food science curriculum in most schools in the United States has split into science and business options, with students in the science option following the Institute of Food Technologists' minimum requirements. The minimum requirements include the food engineering course, thus students enrolled in food engineering are generally better than average, and can be challenged with more rigor in the course material. The food industry itself has changed. Traditionally, the food industry has been primarily involved in the canning and freezing of agricultural commodities, and a company's operations generally remain within a single commodity. Now, the industry is becoming more diversified, with many companies involved in operations involving more than one type of commodity. A number of formulated food products are now made where the commodity connection becomes obscure. The ability to solve problems is a valued asset in a technologist, and often, solving problems involves nothing more than applying principles learned in other areas to the problem at hand. A principle that may have been commonly used with one commodity may also be applied to another commodity to produce unique products. As perhaps the most promising of all the renewable energy sources available today, solar energy is becoming increasingly important in the drive to achieve energy independence and climate balance. This new book is the masterwork from world-renowned expert Dr. Soteris Kalogirou, who has championed solar energy for decades. The book includes all areas of solar energy engineering, from the fundamentals to the highest level of current research. The author includes pivotal subjects such as solar collectors, solar water heating, solar space heating and cooling, industrial process heat, solar desalination, photovoltaics, solar thermal power systems, and modeling of solar systems, including the use of artificial intelligence systems in solar energy systems, modeling and performance prediction. \*Written by one of the world's most renowned experts in solar energy \*Covers the hottest new developments in solar technology, such as solar cooling and desalination \*Packed with quick look up tables and schematic diagrams for the most commonly used systems today' Railway Engineering has been specially designed for undergraduate students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including various modernization plans covering tracks, locomotives, and rolling stock. Important statistical data about the Indian Railways and other useful information have also been incorporated to make the coverage comprehensive. A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those appearing of the AMIE examination and would also be a ready reference for railway professionals. This book covers the state-of-the-art research in nanoporous metals for potential applications in advanced energy fields, including proton exchange membrane fuel cells, Li batteries (Li ion, Li-S, and Li-O<sub>2</sub>), and supercapacitors. The related structural design and performance of nanoporous metals as well as possible mechanisms and challenges are fully addressed. The formation mechanisms of nanoporous metals during dealloying, the microstructures of nanoporous metals and characterization methods, as well as microstructural regulation of nanoporous metals through alloy design of precursors and surface diffusion control are also covered in detail. This is an ideal book for researchers, engineers, graduate students, and government/industry officers who are in charge of R&D investments and strategy related to energy technologies. "System Forensics, Investigation, and Response, Second Edition begins by examining the fundamentals of system forensics, such as what forensics is, the role of computer forensics specialists, computer forensic evidence, and application of forensic analysis skills. It also gives an overview of computer crimes, forensic methods, and laboratories. It then addresses the tools, techniques, and methods used to perform computer forensics and investigation. Finally, it explores emerging technologies as well as future directions of this interesting and cutting-edge field."--

Publisher. The book discusses the evolution of future generation technologies through Internet of Things (IoT) in the scope of Artificial Intelligence (AI). The main focus of this volume is to bring all the related technologies in a single platform, so that undergraduate and postgraduate students, researchers, academicians, and industry people can easily understand the AI algorithms, machine learning algorithms, and learning analytics in IoT-enabled technologies. This book uses data and network engineering and intelligent decision support system-by-design principles to design a reliable AI-enabled IoT ecosystem and to implement cyber-physical pervasive infrastructure solutions. This book brings together some of the top IoT-enabled AI experts throughout the world who contribute their knowledge regarding different IoT-based technology aspects.

Phosphate is an essential mineral to all plants, and its availability in soils is an increasing challenge for agriculture. Phosphate is abundant in soils but its biological availability is often low due to the complexes that it forms with soil minerals and compounds. The biological availability of Phosphate is further reduced in acidic soils, which represent approximately 40% of earth's arable agricultural lands. Agricultural systems compensate Phosphate deficiency with fertilizers coming from the mining of rock phosphate, which is estimated to exhaust within the next 50 years. For these reasons, Phosphate limitations in natural and agricultural ecosystems is going to become a global problem, and we urgently need to better understand how plants respond to Phosphate deficiency.

Statistics in Criminal Justice takes an approach that emphasizes the application and interpretation of statistics in research in crime and justice. This text is meant for both students and researchers who want to gain a basic understanding of common statistical methods used in this field. In general, the text relies on a building-block approach, meaning that each chapter helps to prepare the student for the chapters that follow. It also means that the level of sophistication of the text increases as the text progresses. Throughout the text there is an emphasis on comprehension and interpretation, rather than computation. However, as the statistical methods discussed become more complex and demanding to compute, there is increasing use and integration of statistical software. This approach is meant to provide the reader with an accessible, yet sophisticated understanding of statistics that can be used to examine real-life criminal justice problems with popular statistical software programs. The primary goal of the text is to give students and researchers a basic understanding of statistical concepts and methods that will leave them with the confidence and the tools for tackling more complex problems on their own.

New to the 4th Edition · New chapter on experimental design and the analysis of experimental data. · New chapter on multi-level models, including growth-curve models. · New computer exercises throughout the text to illustrate the use of both SPSS and Stata. · Revision of exercises at the end of each chapter that places greater emphasis on using statistical software. · Additional resources on the text's web site for instructors and students, including answers to selected problems, syntax for replicating text examples in SPSS and Stata, and other materials that can be used to supplement the use of the text.

This book discusses population growth and the resultant problems, and highlights the need for immediate action to develop a set of planned satellite towns around Indian megacities to reduce their population densities and activity concentrations. It addresses problems like unplanned spatial expansion, over-concentration of populations, unmanageable situations in industrial growth, and poor traffic management, concluding that only megacities and their satellites, when planned properly, can together mitigate the urgent problem of urban concentration in and around the megacities. Identifying the general problems, the book develops a quantitative and spatially fitting regional allocation model of population and economic activities. It also offers a policy-based planned program of development for the selected megacities in India along with their satellites and fringe areas to ensure a healthy, balanced and prospective urban scenario for India in the coming decades. Governments are setting challenging targets to increase the production of energy and transport fuel from sustainable sources. The emphasis is increasingly on renewable sources including wind, solar, geothermal, biomass based biofuel, photovoltaics or energy recovery from waste. What are the environmental consequences of adopting these other sources? How do these various sources compare to each other? Life Cycle Assessment of Renewable Energy Sources tries to answer these questions based on the universally adopted method of Life Cycle Assessment (LCA). This book introduces the concept and importance of LCA in the framework of renewable energy sources and discusses the key issues in conducting their LCA. This is followed by an in-depth discussion of LCA for some of the most common bioenergy sources such as agricultural production systems for biogas and bioethanol, biogas from grass, biodiesel from palm oil, biodiesel from used cooking oil and animal fat, Jatropha biodiesel, lignocellulosic bioethanol, ethanol from cassava and sugarcane molasses, residential photovoltaic systems, wind energy, microalgal biodiesel, biohydrogen and biomethane. Through real examples, the versatility of LCA is well emphasized. Written by experts all over the globe, the book is a cornucopia of information on LCA of bioenergy systems and provides a platform for stimulation of new ideas and thoughts. The book is targeted at practitioners of LCA and will become a useful tool for researchers working on different aspects of bioenergy.

In this third edition of Vehicle Accident Analysis & Reconstruction Methods, Raymond M. Brach and R. Matthew Brach have expanded and updated their essential work for professionals in the field of accident reconstruction. Most accidents can be reconstructed effectively using of calculations and investigative and experimental data: the authors present the latest scientific, engineering, and mathematical reconstruction methods, providing a firm scientific foundation for practitioners. Accidents that cannot be reconstructed using the methods in this book are rare. In recent decades, the field of crash reconstruction has been transformed through the use of technology. The advent of event data records (EDRs) on vehicles signaled the era of modern crash reconstruction, which utilizes the same physical evidence that was previously available as well as electronic data that are measured/captured before, during, and after the collision. There is increased demand for more professional and accurate reconstruction as more crash data is available from vehicle sensors. The third edition of this essential work includes a new chapter on the use of EDRs as well as examples using EDR data in accident reconstruction. Early chapters feature foundational material that is necessary for the understanding of vehicle collisions and vehicle motion; later chapters present applications of the methods and include example reconstructions. As a result, Vehicle Accident Analysis & Reconstruction Methods remains the definitive resource in accident reconstruction.

Storage and conversion are critical components of important energy-related technologies. "Advanced Batteries: Materials Science Aspects" employs materials science concepts and tools to describe the critical features that control the behavior of advanced electrochemical storage systems. This volume focuses on the basic phenomena that determine the properties of the components, i.e. electrodes and electrolytes, of advanced systems, as well as experimental methods used to study their critical parameters. This unique materials science approach utilizes concepts and methodologies different from those typical in electrochemical texts, offering a fresh, fundamental and tutorial perspective of advanced battery systems. Graduate students, scientists and engineers interested in electrochemical energy storage and conversion will find "Advanced Batteries: Materials Science Aspects" a valuable reference. A graduate-level introduction to scanning tunnelling microscopy,

which explains how the method's ability to map microscopic surfaces non-destructively has found major applications in physics, surface science, materials science, biology, chemistry and engineering. PART OF THE JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Revised and updated with the latest information from this fast-paced field, Fundamentals of Information System Security, Second Edition provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the transformation to a digital world, including a look at how business, government, and individuals operate today. Part 2 is adapted from the Official (ISC)2 SSCP Certified Body of Knowledge and presents a high-level overview of each of the seven domains within the System Security Certified Practitioner certification. The book closes with a resource for readers who desire additional material on information security standards, education, professional certifications, and compliance laws. With its practical, conversational writing style and step-by-step examples, this text is a must-have resource for those entering the world of information systems security. New to the Second Edition: - New material on cloud computing, risk analysis, IP mobility, OMNIBus, and Agile Software Development. - Includes the most recent updates in Information Systems Security laws, certificates, standards, amendments, and the proposed Federal Information Security Amendments Act of 2013 and HITECH Act. - Provides new cases and examples pulled from real-world scenarios. - Updated data, tables, and sidebars provide the most current information in the field. The latest developments in the field of hybrid electric vehicles Hybrid Electric Vehicles provides an introduction to hybrid vehicles, which include purely electric, hybrid electric, hybrid hydraulic, fuel cell vehicles, plug-in hybrid electric, and off-road hybrid vehicular systems. It focuses on the power and propulsion systems for these vehicles, including issues related to power and energy management. Other topics covered include hybrid vs. pure electric, HEV system architecture (including plug-in & charging control and hydraulic), off-road and other industrial utility vehicles, safety and EMC, storage technologies, vehicular power and energy management, diagnostics and prognostics, and electromechanical vibration issues. Hybrid Electric Vehicles, Second Edition is a comprehensively updated new edition with four new chapters covering recent advances in hybrid vehicle technology. New areas covered include battery modelling, charger design, and wireless charging. Substantial details have also been included on the architecture of hybrid excavators in the chapter related to special hybrid vehicles. Also included is a chapter providing an overview of hybrid vehicle technology, which offers a perspective on the current debate on sustainability and the environmental impact of hybrid and electric vehicle technology. Completely updated with new chapters Covers recent developments, breakthroughs, and technologies, including new drive topologies Explains HEV fundamentals and applications Offers a holistic perspective on vehicle electrification Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives, Second Edition is a great resource for researchers and practitioners in the automotive industry, as well as for graduate students in automotive engineering. Newnes Electrical Pocket Book is the ideal daily reference source for electrical engineers, electricians and students. First published in 1932 this classic has been fully updated in line with the latest technical developments, regulations and industry best practice. Providing both in-depth knowledge and a broad overview of the field this pocket book is an invaluable tool of the trade. A handy source of essential information and data on the practice and principles of electrical engineering and installation. The 23rd edition has been updated by engineering author and consultant electrical engineer, Martin Heathcote. Major revisions have been made to the sections on semiconductors, power generation, transformers, building automation systems, electric vehicles, electrical equipment for use in hazardous areas, and electrical installation (reflecting the changes introduced to the IEE Wiring Regulations BS7671: 2001). A number of thermodynamic books claiming to be original in both presentation and approach have been published. However, thermodynamics is still a confusing subject for uninitiated students and an “easy-to-forget” one for graduate engineers. In order to solve these problems, this computer aided learning package — textbook and CD-ROM — takes a new approach. This package is unique and beneficial in that it simulates a classroom lecture: it actually writes important equations and concepts on a virtual board, underlines, draws circles, places ticks to emphasise important points, draws arrows to indicate relationships, uses colours for visual effect, erases some parts to write new lines, and even repeats some parts of the lesson to stress their importance. This realistic simulation is made possible by the employment of the multimedia capabilities of the modern-day computer. Readers are not just passively presented with thermodynamics, they can also interactively select and repeat any particular topic of interest as many times as they want. This flexibility allows readers to choose their own pace of presentation. This complementary set is in many important respects better than the books that are currently available on the subject. This long awaited second edition of a popular textbook has a simple and direct approach to the diversity and complexity of food processing. It explains the principles of operations and illustrates them by individual processes. The new edition has been enlarged to include sections on freezing, drying, psychrometry, and a completely new section on mechanical refrigeration. All the units have been converted to SI measure. Each chapter contains unworked examples to help the student gain a grasp of the subject, and although primarily intended for the student food technologist or process engineer, this book will also be useful to technical workers in the food industry

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