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Pain in ChildrenUnsafe at Any SpeedPolymer ElectrolytesIacoccaTransitions to Alternative Vehicles and FuelsAmphibians of Western North AmericaCrap CarsAlternative Energy SourcesMulticomponent Polymeric MaterialsMagnetic NanostructuresSpecial Operations Patrol VehiclesWorking MotherAutomotive Engineering FundamentalsSpectral Line Shapes in Astrophysics and Related TopicsMicrowave Ring Circuits and Related StructuresSixty Years of ChevroletAssessing the Potential for Civil-military IntegrationThe BuickLS SwapsAn Introduction to Applied Cognitive PsychologyEffectiveness and Impact of Corporate Average Fuel Economy (CAFE) StandardsBedford Buses and CoachesThe HMMWV HumveeAgile Processes in Software Engineering and Extreme ProgrammingSound Communication in FishesCarPrinciples of Highway Engineering and Traffic AnalysisPopular ScienceU.S. Automotive IndustryOcean of SoundSustainable Energy--without the Hot AirMilitary Land RoverThis Truck Saved My Life Lessons Learned from the Mrap Vehicle ProgramThe United States Patents QuarterlyLook at MeChild and Adolescent Drug and Substance AbuseU. S. Motor Vehicle IndustryIndustrial Sprays and AtomizationPhysics Concepts and ConnectionsMars

Pain in Children

An extensive critical compilation of the wide range of manufacturing processes that involve the application of spray technology, this book covers design of atomizers as well as the performance of plant and their corresponding spray systems. The needs of practising engineers from different disciplines: project managers, and works, maintenance and design engineers are catered for. Of interest to researchers in the field of liquid sprays, the book includes outlines of the contemporary and possible future research and challenges in the different fields of application and deals with: • sprays and their production; • sprays in industrial production processes; • processes involving vaporisation and cooling or cleaning of gases; • spray-surface impact processes; • fuel sprays for fixed plant; • spraying of hot surfaces for steel making and other metals; • spraying of molten metals. Guidance is given for the analysis and interpretation of experimental data obtained using different measurement techniques.

Unsafe at Any Speed

Recently, magnetic nanostructures have gained a remarkable interest for basic research and applied studies. Because of their low cost and ease of manufacture and modification, they have great potential for agricultural and environmental applications. The use of magnetic nanostructures has been proven in a wide range of fields including catalysis, biotechnology, biomedicine, magnetic resonance imaging, agriculture, biosensors, and removal of environmental pollutants,

among others. This book includes 16 chapters of collected knowledge, discoveries, and applications in agriculture, soil remediation, and water treatment. It describes the role of nano-agriculture with regard to food security and discusses environmental and agricultural protection concerns. It further offers potential applications of magnetic nanomaterials in the agriculture and food sectors, such as the development of sensors, environment monitoring for wastewater treatment and the remediation of contaminated soils. Increasing crop yield through the use of nanopesticides or nanofertilizers and biosecurity using sensors for detecting pathogens along the entire food chain are discussed as well. This book also brings together various sources of expertise on different aspects magnetic nanostructure application in the agri-food sector and environment remediation. Magnetic nanostructures also have great potential in biotechnological processes, as they can be utilized as a carrier for enzymes during different biocatalytic transformations. Novel magnetic nanomaterials can be used for detection and separation of pesticides from environmental and biological samples. The excellent adsorption capacity of the modified magnetic nanoadsorbents together with other advantages such as reusability, easy separation, environmentally friendly composition, and freedom of interferences of alkaline earth metal ions make them suitable adsorbents for removal of heavy metal ions from environmental and industrial wastes. One of the most important environmental applications of magnetic nanostructures has been in the treatment of water, whether in the remediation of groundwater or through the magnetic separation and/or sensing of contaminants present in various aqueous systems. The integrated combination of these 16 chapters, written by experts with considerable experience in their area of research, provides a comprehensive overview on the synthesis, characterization, application, environmental processing, and agriculture of engineered magnetic nanostructures. Its comprehensive coverage discusses how nanostructure materials interact in plants as well as their potential and useful applications.

Polymer Electrolytes

Gives students of automotive engineering a basic understanding of the principles involved with designing a vehicle and includes details of engines and transmissions, vehicle aerodynamics and computer modelling.

Iacocca

Account of how and why cars kill, and why the automobile manufacturers have failed to make cars safe.

Transitions to Alternative Vehicles and Fuels

A comprehensive overview of the main characterization techniques of polymer electrolytes and their applications in electrochemical devices Polymer Electrolytes is a comprehensive and up-to-date guide to the characterization and

applications of polymer electrolytes. The authors ? noted experts on the topic ? discuss the various characterization methods, including impedance spectroscopy and thermal characterization. The authors also provide information on the myriad applications of polymer electrolytes in electrochemical devices, lithium ion batteries, supercapacitors, solar cells and electrochromic windows. Over the past three decades, researchers have been developing new polymer electrolytes and assessed their application potential in electrochemical and electrical power generation, storage, and conversion systems. As a result, many new polymer electrolytes have been found, characterized, and applied in electrochemical and electrical devices. This important book: -Reviews polymer electrolytes, a key component in electrochemical power sources, and thus benefits scientists in both academia and industry -Provides an interdisciplinary resource spanning electrochemistry, physical chemistry, and energy applications -Contains detailed and comprehensive information on characterization and applications of polymer electrolytes Written for materials scientists, physical chemists, solid state chemists, electrochemists, and chemists in industry professions, Polymer Electrolytes is an essential resource that explores the key characterization techniques of polymer electrolytes and reveals how they are applied in electrochemical devices.

Amphibians of Western North America

This book contains the refereed proceedings of the 16th International Conference on Agile Software Development, XP 2015, held in Helsinki, Finland, in May 2015. While agile development has already become mainstream in industry, this field is still constantly evolving and continues to spur an enormous interest both in industry and academia. The XP conference series has always played, and continues to play, an important role in connecting the academic and practitioner communities, providing a forum for both formal and informal sharing and development of ideas, experiences, and opinions. The theme of XP 2015 "Delivering Value: Moving from Cyclic to Continuous Value Delivery" reflects the modern trend towards organizations that are simultaneously very efficient and flexible in software development and delivery. The 15 full and 7 short papers accepted for XP 2015 were selected from 44 submissions. All of the submitted papers went through a rigorous peer-review process. Additionally, 11 experience reports were selected from 45 proposals, and in each case the authors were shepherded by an experienced researcher.

Crap Cars

Since CAFE standards were established 25 years ago, there have been significant changes in motor vehicle technology, globalization of the industry, the mix and characteristics of vehicle sales, production capacity, and other factors. This volume evaluates the implications of these changes as well as changes anticipated in the next few years, on the need for CAFE, as well as the stringency and/or structure of the CAFE program in future years.

Alternative Energy Sources

This volume examines fish sounds that have a proven signal function, as well as sounds assumed to have evolved for communication purposes. It provides an overview of the mechanisms, evolution and neurobiology behind sound production in fishes, and discusses the role of fish sounds in behavior with a special focus on choice of mate, sex-specific and age-specific signaling. Furthermore, it highlights the ontogenetic development of sound communication and ecoacoustical conditions in fish habitats and the influence of hormones on vocal production and sound detection. Sound Communication in Fishes offers a must-have compendium for lecturers, researchers and students working in the fields of animal communication, fish biology, neurobiology and animal behavior.

Multicomponent Polymeric Materials

Magnetic Nanostructures

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.

Special Operations Patrol Vehicles

Working Mother

Automotive Engineering Fundamentals

This is a print on demand edition of a hard to find publication. An in-depth analysis of the 2009 crisis in the U.S. auto industry and its prospects for regaining domestic and global competitiveness. Analyzes business and policy issues arising from the restructurings within the industry. The year 2009 was marked by recession and a crisis in global credit markets; the bankruptcy of GM and Chrysler; the incorporation of successor companies; hundreds of parts supplier bankruptcies; plant closings and worker buyouts; the cash-for-clunkers program; and increasing production and sales at year's end. Also examines the successes of Ford and the increasing presence of foreign-owned OEM, foreign-owned parts manufacturers, competition from

imported vehicles, and a buildup of global over-capacity that threatens the recovery of U.S. domestic producers.

Spectral Line Shapes in Astrophysics and Related Topics

By offering unique analysis and synthesis of theory, empirical research, and clinical guidance in an up-to-date and unbiased context, this book assists health and social care professionals in understanding the use of drugs and substances of abuse by children and adolescents. A comprehensive reference for health and social care professionals, the book identifies and corrects related false narratives and, with the use of the authors' combined experience of over 70 years of clinical and academic experience in drug and substance abuse, provides current pharmacotherapeutic and psychotherapeutic approaches for the treatment of alcohol or other dependence or use disorders among children and adolescents. The book also provides a useful reference for identifying brand/trade and street names of the drugs and substances of abuse commonly used by children and adolescents. Also included is a comprehensive, cross-referenced subject index. Clear, comprehensive, accessible, and fully referenced, this book will be an invaluable resource for professionals and students who aim to treat children and adolescents. Child and Adolescent Drug and Substance Abuse is the 19th clinical pharmacology and therapeutic text that the Pagliaros have written over the past 40 years and is the sixth that deals exclusively with drug and substance abuse.

Microwave Ring Circuits and Related Structures

Alternative Energy Sources is designed to give the reader, a clear view of the role each form of alternative energy may play in supplying the energy needs of the human society in the near future (20-50 years). The two first chapters on "energy demand and supply" and "environmental effects," set the tone as to why alternative energy is essential for the future. The third chapter gives the laws of energy conversion processes, as well as the limitations of converting one energy form to another. The section on exergy gives a quantitative background on the capability/potential of each energy source to produce power. The fourth, fifth and sixth chapters are expositions of fission and fusion nuclear energy, the power plants that may produce power from these sources and the issues that will frame the public debate on nuclear energy. The following five chapters include descriptions of the most common renewable energy sources (wind, solar, geothermal, biomass, hydroelectric) some of the less common sources (e.g. tidal and wave energy). The emphasis of these chapters will be on the global potential of each source, the engineering/technical systems that are used in harnessing the potential of each source, the technological developments that will contribute to wider utilization of the sources and environmental effects associated with their wider use. The last three chapters are: "energy storage," which will become an important issue if renewable energy sources are used widely. The fourteen chapters in the book have been chosen so that one may fit a semester University course around this book. At the end of every chapter, there are 10-20 problems and 1-3 suggestions of

semester projects that may be assigned to students for further research.

Sixty Years of Chevrolet

DK's latest Car traces the history and role of the automobile, cataloging the diverse spectrum of cars from the first prototypes to the supercars of today. The book will not only cover the technological developments and manufacture of cars, but also the cultural backdrop against which the various models arose, and the enduring impact which the car has had on society as an object of curiosity, symbol of luxury, and item of necessity.

Assessing the Potential for Civil-military Integration

For a century, almost all light-duty vehicles (LDVs) have been powered by internal combustion engines operating on petroleum fuels. Energy security concerns about petroleum imports and the effect of greenhouse gas (GHG) emissions on global climate are driving interest in alternatives. Transitions to Alternative Vehicles and Fuels assesses the potential for reducing petroleum consumption and GHG emissions by 80 percent across the U.S. LDV fleet by 2050, relative to 2005. This report examines the current capability and estimated future performance and costs for each vehicle type and non-petroleum-based fuel technology as options that could significantly contribute to these goals. By analyzing scenarios that combine various fuel and vehicle pathways, the report also identifies barriers to implementation of these technologies and suggests policies to achieve the desired reductions. Several scenarios are promising, but strong, and effective policies such as research and development, subsidies, energy taxes, or regulations will be necessary to overcome barriers, such as cost and consumer choice.

The Buick

Advances over the past two decades have enabled physicians to revolutionize the manner in which they can assess and manage children's pain. Thirty years ago it was thought that young children did not experience pain and therefore it was not necessary to treat it. Today professionals from a variety of disciplines have contributed data that have revolutionized medical perspectives. Technological advances now enable doctors to treat acute pain in fetuses, premature neonates, infants, toddlers, children, and adolescents with increasing precision and efficacy. Research highlighting the context of chronic pain has moved them away from a mind-body dichotomy and toward an integrated, holistic perspective that leads to substantial improvement in children's adaptive functioning as well as subjective discomfort. This book covers these topics and is intended for anyone who provides medical care to children. Each chapter provides an overview of the problem, followed by a "hands on" description of relevant assessment and intervention strategies. The role of the primary care

practitioner is highlighted, both as a front-line resource as well as a consumer of specialized pediatric pain treatment services. Each chapter ends with a summary and specific bullet points highlighting the most central elements, making for quick and easy reference.

LS Swaps

“Vintage Iacocca . . . He is fast-talking, blunt, boastful, and unabashedly patriotic. Lee Iacocca is also a genuine folk hero. . . . His career is breathtaking.”—Business Week He’s an American legend, a straight-shooting businessman who brought Chrysler back from the brink and in the process became a media celebrity, newsmaker, and a man many had urged to run for president. The son of Italian immigrants, Lee Iacocca rose spectacularly through the ranks of Ford Motor Company to become its president, only to be toppled eight years later in a power play that should have shattered him. But Lee Iacocca didn’t get mad, he got even. He led a battle for Chrysler’s survival that made his name a symbol of integrity, know-how, and guts for millions of Americans. In his classic hard-hitting style, he tells us how he changed the automobile industry in the 1960s by creating the phenomenal Mustang. He goes behind the scenes for a look at Henry Ford’s reign of intimidation and manipulation. He recounts the miraculous rebirth of Chrysler from near bankruptcy to repayment of its \$1.2 billion government loan so early that Washington didn’t know how to cash the check.

An Introduction to Applied Cognitive Psychology

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Effectiveness and Impact of Corporate Average Fuel Economy (CAFE) Standards

Introduced in 1997, the GM LS engine has become the dominant V-8 engine in GM vehicles and a top-selling high-performance crate engine. GM has released a wide range of Gen III and IV LS engines that deliver spectacular efficiency and performance. These compact, lightweight, cutting-edge pushrod V-8 engines have become affordable and readily obtainable from a variety of sources. In the process, the LS engine has become the most popular V-8 engine to swap into many American and foreign muscle cars, sports cars, trucks, and passenger cars. To select the best engine for an LS engine swap, you need to carefully consider the application. Veteran author and LS engine swap master Jefferson Bryant reveals all the criteria to consider when choosing an LS engine for a swap project. You are guided through selecting or fabricating motor mounts for the project. Positioning the LS engine in the engine compartment and packaging its equipment is a crucial

part of the swap process, which is comprehensively covered. As part of the installation, you need to choose a transmission crossmember that fits the engine and vehicle as well as selecting an oil pan that has the correct profile for the crossmember with adequate ground clearance. Often the brake booster, steering shaft, accessory pulleys, and the exhaust system present clearance challenges, so this book offers you the best options and solutions. In addition, adapting the computer-control system to the wiring harness and vehicle is a crucial aspect for completing the installation, which is thoroughly detailed. As an all-new edition of the original top-selling title, *LS Swaps: How to Swap GM LS Engines into Almost Anything* covers the right way to do a spectrum of swaps. So, pick up this guide, select your ride, and get started on your next exciting project.

Bedford Buses and Coaches

Land Rovers have been used by the military since they were introduced, in Series I form, in 1948. The Land Rover's rugged, 'go-anywhere' reputation has led to its use in a vast number of military roles, from general-purpose workhorse to special forces reconnaissance vehicle, ambulance, communications vehicle and weapons platform. Additionally, a number of one-off prototypes have been produced for various trials. This manual provides a unique insight into the world of military Land Rovers, with an emphasis on military operation and equipment.

The HMMWV Humvee

Agile Processes in Software Engineering and Extreme Programming

Chronicles the development of the Chevrolet Motor Company and illuminates innovations in the design and technology of automobiles from 1912-1972

Sound Communication in Fishes

The definitive text on microwave ring circuits-now better than ever For the past three decades, the ring resonator has been widely used in such applications as measurements, filters, oscillators, mixers, couplers, power dividers/combiners, antennas, and frequency-selective surfaces, to name just a few. The field has continued to expand, with many new analyses, models, and applications recently reported. *Microwave Ring Circuits and Related Structures* has long been the only text fully dedicated to the treatment of ring resonators. The second edition has been thoroughly revised to reflect the most current developments in the field. In addition to updating all the original material, the authors have added extensive

new coverage on: * A universal model for both rectangular and circular ring configurations * Applications of ring structures for all types of planar circuits * A new transmission line analysis * An abundance of new applications in bandpass and bandstop filters, couplers, oscillators, and antennas While retaining all the features that made the original text so useful to both students and teachers in the field, the second edition seeks to introduce the analysis and models of ring resonators and to apply them to both the old and the new applications, including microstrip, slotline, coplanar waveguide, and waveguide transmission lines. Based on dissertations and papers published by graduate students, scholars, and research associates at A&M University, *Microwave Ring Circuits and Related Structures, Second Edition* is sure to be a valuable addition to both engineering classrooms and research libraries in the field.

Car

The patrol vehicles used by Special Operations Forces in Afghanistan and Iraq vary quite dramatically between the theatres as well as amongst the Coalition members, and have been developed and upgraded to meet the demands of the deployment. Covering all the major Coalition nations, Leigh Neville continues his look at the elite forces deployed in Operations Enduring Freedom and Iraqi Freedom, with this analysis of their vehicles. Tracing the evolution of the vehicle types, from their historical precedents, through their designs to their operational developments, he discusses their advantages and disadvantages, along with their tactical employment. From the mine-protected vehicles used to counter the IED threat in Iraq, the use of Strykers as armoured raiding platforms by the US Rangers, to the civilian vehicles adapted for military service by both Coalition troops and Private Military Contractors in the regions, this book uses rare in-theatre photographs and colour artwork to show the variety and inventiveness of the patrol vehicles being used in combat today.

Principles of Highway Engineering and Traffic Analysis

This Truck Saved My Life Lessons Learned from the MRAP Vehicle Program The subject of this book, the Mine-Resistant Ambush-Protected Vehicle Program, was unique in many ways. "MRAP" meant a vehicle that could survive in the face of the mines, roadside improvised explosive devices (IEDs) and ambushes the enemy mounted throughout Iraq and Afghanistan. The program moved with lightning speed-one member of the team described it as "MRAP Speed"-not seen in large defense programs since World War II. It produced a flood of vehicles on such a scale that it was the largest single defense acquisition program in Fiscal Year (FY) 2010-an amazing fact given that the program did not even exist in FY 2006. This book is written to answer these questions by providing a history of the program. To deal with the fundamental questions, that history has to be told in thematic terms. So much happened in parallel that a chronology would be misleading. It would fail to convey the special character and achievements of the MRAP program.

Popular Science

The magazine that helps career moms balance their personal and professional lives.

U.S. Automotive Industry

"An in-depth look at the HMMWV Humvee, with detailed cross-section diagrams, action photos, and fascinating facts"--Provided by publisher.

Ocean of Sound

Sustainable Energy--without the Hot Air

Sun Ra, Brian Eno, Lee Perry, Kate Bush, Kraftwerk, Aphex Twin, Ryuichi Sakamoto and Brian Wilson are interviewed in this extraordinary work of sonic history. It travels from the rainforests of Amazonas to virtual Las Vegas; from David Lynch's dream house high in the Hollywood Hills to the megalopolis of Tokyo. Ocean of Sound begins in 1889 at the Paris exposition when Debussy first heard Javanese music performed. An ethereal culture developed in response to the intangibility of 20th century communications. Author of Rap Attack 3 and Exotica, David Toop has in Ocean of Sound written an exhilarating, path-breaking account of ambient sound.

Military Land Rover

th th Mars, the Red Planet, fourth planet from the Sun, forever linked with 19 and 20 Century fantasy of a bellicose, intelligent Martian civilization. The romance and excitement of that fiction remains today, even as technologically sophisticated - botic orbiters, landers, and rovers seek to unveil Mars' secrets; but so far, they have yet to find evidence of life. The aura of excitement, though, is justified for another reason: Mars is a very special place. It is the only planetary surface in the Solar System where humans, once free from the bounds of Earth, might hope to establish habitable, self-sufficient colonies. Endowed with an insatiable drive, focused motivation, and a keen sense of - ploration and adventure, humans will undergo the extremes of physical hardship and danger to push the envelope, to do what has not yet been done. Because of their very nature, there is little doubt that humans will in fact conquer Mars. But even earth-bound extremes, such those experienced by the early polar explorers, may seem like a walk in the park compared to future experiences on Mars.

This Truck Saved My Life Lessons Learned from the Mrap Vehicle Program

A National Book Award Finalist In this ambitiously multilayered novel from the acclaimed and award-winning writer Jennifer Egan, a fashion model named Charlotte Swenson emerges from a car accident in her Illinois hometown with her face so badly shattered that it takes eighty titanium screws to reassemble it. She returns to New York still beautiful but oddly unrecognizable, a virtual stranger in the world she once effortlessly occupied. With the surreal authority of a David Lynch, Jennifer Egan threads Charlotte's narrative with those of other casualties of our infatuation with the image. There's a deceptively plain teenaged girl embarking on a dangerous secret life, an alcoholic private eye, and an enigmatic stranger who changes names and accents as he prepares an apocalyptic blow against American society. As these narratives inexorably converge, *Look at Me* becomes a coolly mesmerizing intellectual thriller of identity and imposture.

The United States Patents Quarterly

Spectral lines, widths, and shapes are powerful tools for emitting/absorbing gas diagnostics in different astrophysical objects (from the solar system to the most distant objects in the universe—quasars). On the other hand, experimental and theoretical investigations of laboratory plasma have been applied in spectroscopic astrophysical research, especially in research on atomic data needed for line shape calculations. Data on spectral lines and their profiles are also important for diagnostics, analysis, and the modelling of fusion plasma, laser-produced plasma, laser design and development, and various plasmas in industry and technology, like light sources based on plasmas or the welding and piercing of metals by laser-produced plasma. The papers from this book can be divided into four groups: 1. stark broadening data for astrophysical and laboratory plasma investigations; 2. applications of spectral lines for astrophysical and laboratory plasma research; 3. spectral line phenomena in extragalactic objects, and 4. laboratory astrophysics results for spectra investigation. The reviews and research papers, representing new research on the topics presented in this book, are of interest for specialists and PhD students. We hope that the present book will be useful and interesting for scientists interested in the investigation of spectral line shapes and will contribute to the education of young researchers and PhD students.

Look at Me

Offers a window into the vanity and silliness of almost every decade as expressed by the ultimate status symbol of the car, showcasing the cheapest, tackiest, and most mechanically inept vehicles built from the 1960s to the 1990s.

Child and Adolescent Drug and Substance Abuse

Bedford Buses and Coaches provides a detailed review of the entire range of purpose-built Public Service Vehicle (PSV) bus and coach chassis that carried the Bedford name from 1931 until production ceased in 1986. Bedfords were once a familiar sight on the roads not only of the United Kingdom, but throughout the world. They were produced in such volume that the advertising slogan 'You see them everywhere' was quite legitimately adopted by Vauxhall Motors, the manufacturer of Bedford vehicles. Fully illustrated throughout with hundreds of photographs, the majority in colour, the book includes detailed descriptions of the Bedford petrol and diesel engines and other manufacturers engines used in Bedford bus and coach chassis. Detailed specifications and production histories are given for all the full-size passenger chassis including the WHB/WLB, WTB, OB/OWB, SB, VAS, VAL, VAM, Y-series and the Venturer. Road tests and owners' experiences are covered along with advice on buying and restoring a Bedford bus or coach. This book will be of great interest to all bus enthusiasts and historians and is superbly illustrated with 200 colour and 50 black & white photographs.

U. S. Motor Vehicle Industry

Industrial Sprays and Atomization

Over one million Americans are employed in manufacturing motor vehicles, equipment and parts. But the industry has changed dramatically since the U.S. "Big Three" motor vehicle corporations (General Motors, Ford and Chrysler) produced the overwhelming majority of cars and light trucks sold in the United States, and directly employed many people themselves. By 2003, most passenger cars sold in the U.S. market were either imported or manufactured by foreign-based producers at new North American plants (so-called "transplant" facilities). The Big Three now dominate only in light trucks, and are also now being challenged there by the foreign brands. The Big Three have shed about 600,000 U.S. jobs since 1980, while about one-quarter of Americans employed in automotive manufacturing (nearly 300,000) work for the foreign-owned companies. It is clear that the U.S. automotive industry has undergone many drastic changes that have had a net adverse effect on American interests. This book examines the causes of these changes. Congressional acts, increasingly stringent emission laws, the effects of NAFTA, labour unions and globalisation are all within the scope of this book.

Physics Concepts and Connections

The book offers an in-depth review of the materials design and manufacturing processes employed in the development of multi-component or multiphase polymer material systems. This field has seen rapid growth in both academic and industrial research, as multiphase materials are increasingly replacing traditional single-component materials in commercial applications. Many obstacles can be overcome by processing and using multiphase materials in automobile, construction,

aerospace, food processing, and other chemical industry applications. The comprehensive description of the processing, characterization, and application of multiphase materials presented in this book offers a world of new ideas and potential technological advantages for academics, researchers, students, and industrial manufacturers from diverse fields including rubber engineering, polymer chemistry, materials processing and chemical science. From the commercial point of view it will be of great value to those involved in processing, optimizing and manufacturing new materials for novel end-use applications. The book takes a detailed approach to the description of process parameters, process optimization, mold design, and other core manufacturing information. Details of injection, extrusion, and compression molding processes have been provided based on the most recent advances in the field. Over two comprehensive sections the book covers the entire field of multiphase polymer materials, from a detailed description of material design and processing to the cutting-edge applications of such multiphase materials. It provides both precise guidelines and general concepts for the present and future leaders in academic and industrial sectors.

Mars

This book offers a student friendly review of recent research in the application of cognitive methods, theories and models to real-world scenarios.

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