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Stilwell's Mission to China - Charles F. Romanus 1953

Pathways to a Hydrogen Future - Thomas E Drennen
2007-08-29

Hydrogen may someday fuel our cars and power and heat our homes and businesses and revolutionize the way we use energy. Moving to a hydrogen economy could help reduce our reliance on foreign oil, improve local air quality, and reduce the risk of climate change. Despite the potential of hydrogen, there is no guarantee that the hydrogen economy will happen as the obstacles are considerable and the competing visions are many. Pathways to a Hydrogen Future seeks to untangle the competing visions of a hydrogen economy, explain the trade-offs and obstacles and offer recommendations for a path forward. The results are based on a detailed simulation model developed at Sandia National

Laboratories: "The Hydrogen Futures Simulation Model (H2Sim)". The H2Sim is a high-level strategic tool for evaluating the economic and environmental trade-offs of alternative hydrogen production, storage, transport, and end use options in the year 2020. An executive version of H2Sim is included with the book allowing readers to explore the various scenarios discussed. H2Sim's ease of use and its ability to provide answers to these types of questions make it a powerful educational and policy making tool. The model's structure is ideal for exploring "what-if" questions, such as: Can fuel cell vehicles (FCVs) compete economically with current cars if the FCVs are 2.5 times as efficient? Should the hydrogen be produced at fueling stations or at central locations and transported to fueling stations? * Includes an executive version of H2Sim allowing readers to explore the various scenarios discussed * H2Sim's

ease of use and ability to provide answers makes it a powerful educational and policy making tool * The model's structure is ideal for exploring "what-if" questions, such as: Can fuel cell vehicles (FCVs) compete economically with current cars if the FCVs are 2.5 times as efficient? Should the hydrogen be produced at fueling stations or at central locations and transported to fueling stations?

Sustainable Manufacturing and Design - Kaushik Kumar
2021-01-26

Sustainable Manufacturing and Design draws together research and practices from a wide range of disciplines to help engineers design more environmentally sustainable products. Sustainable manufacturing requires that the entire manufacturing enterprise adopts sustainability goals at a system-level in decision-making, hence the scope of this book covers a wide range of viewpoints in response. Advice on recyclability, zero landfill design, sustainable quality systems, and product take-back issues make this a highly usable guide to the challenges facing engineering designers today. Contributions from around the globe are included, helping to form an international view of an issue that requires a global response. Addresses methods to reduce energy and material waste through manufacturing design Helps to troubleshoot manufacturability problems that can arise in sustainable design Includes coverage of the legislative, cultural and social impacts of sustainable manufacturing, promoting a holistic view of the subject

Adult Neurogenesis - Gerd Kempermann 2006

The discovery of adult neurogenesis and of stem cells in the brain has changed our view of the mature brain. Though we now know that the adult brain can make new neurons, it normally does so only in two privileged

regions, the olfactory bulb and the hippocampus. Yet stem cells, which have the potential to produce new neurons, can be found throughout the adult brain. So why does the brain not make wider use of its potential for neurogenesis? And what is the function of new neurons and of neural stem cells in areas where they occur? After all, the brain regenerates poorly and many neurological and psychiatric disorders are chronic because cell replacement has not taken place. This is the first comprehensive, integrated account of one of the most exciting areas of neuroscience. It begins with the historical background and discusses theories of adult neurogenesis and neural stem cell biology in the context of learning and memory processes as well as structural plasticity. It describes in detail neurogenesis in the adult hippocampus and olfactory system and then surveys the regulatory, functional, and comparative aspects, concluding with a chapter on the provocative hypotheses that link failing adult neurogenesis with such diseases as temporal lobe epilepsy, major depression, brain tumors, and dementias. For graduate students, investigators, and clinicians in the neurosciences, developmental biology, and stem cell research, this book is a unique resource that sifts through the evidence for exciting scientific ideas and fosters a realistic view of the therapeutic possibilities for the use of stem cells in the adult brain.

Introduction to Business - Lawrence J. Gitman 2018

Introduction to Business covers the scope and sequence of most introductory business courses. The book provides detailed explanations in the context of core themes such as customer satisfaction, ethics, entrepreneurship, global business, and managing change. Introduction to

Business includes hundreds of current business examples from a range of industries and geographic locations, which feature a variety of individuals. The outcome is a balanced approach to the theory and application of business concepts, with attention to the knowledge and skills necessary for student success in this course and beyond.

The Anger Gap - Davin L. Phoenix 2019-12-26

Anger is a powerful mobilizing force in American politics on both sides of the political aisle, but does it motivate all groups equally? This book offers a new conceptualization of anger as a political resource that mobilizes black and white Americans differentially to exacerbate political inequality. Drawing on survey data from the last forty years, experiments, and rhetoric analysis, Phoenix finds that - from Reagan to Trump - black Americans register significantly less anger than their white counterparts and that anger (in contrast to pride) has a weaker mobilizing effect on their political participation. The book examines both the causes of this and the consequences. Pointing to black Americans' tempered expectations of politics and the stigmas associated with black anger, it shows how race and lived experience moderate the emergence of emotions and their impact on behavior. The book makes multiple theoretical contributions and offers important practical insights for political strategy.

Jurassic Park - Michael Crichton 2012-09-25

#1 NEW YORK TIMES BESTSELLER • From the author of *Timeline*, *Sphere*, and *Congo*, this is the classic thriller of science run amok that took the world by storm. Nominated as one of America's best-loved novels by PBS's *The Great American Read* "[Michael] Crichton's dinosaurs are genuinely frightening."—Chicago Sun-Times

An astonishing technique for recovering and cloning dinosaur DNA has been discovered. Now humankind's most thrilling fantasies have come true. Creatures extinct for eons roam Jurassic Park with their awesome presence and profound mystery, and all the world can visit them—for a price. Until something goes wrong. . . . In Jurassic Park, Michael Crichton taps all his mesmerizing talent and scientific brilliance to create his most electrifying technothriller. Praise for Jurassic Park "Wonderful . . . powerful."—The Washington Post Book World "Frighteningly real . . . compelling . . . It'll keep you riveted."—The Detroit News "Full of suspense."—The New York Times Book Review

Report of the Department of the Treasury on the Bureau of Alcohol, Tobacco, and Firearms Investigation of Vernon Wayne Howell Also Known as David Koresh - United States. Bureau of Alcohol, Tobacco, and Firearms 1993 Investigative report of the events leading to the raid of the Branch Davidian Compound near Waco, Texas, on February 28, 1993.

Energy Research Abstracts - 1979

Handbook of Forensic Anthropology and Archaeology - Soren Blau 2016-07-28

With contributions from 70 experienced practitioners from around the world, this second edition of the authoritative *Handbook of Forensic Archaeology and Anthropology* provides a solid foundation in both the practical and ethical components of forensic work. The book weaves together the discipline's historical development; current field methods for analyzing crime, natural disasters, and human atrocities; an array of laboratory techniques; key case studies involving legal, professional, and ethical issues; and ideas about the

future of forensic work--all from a global perspective. This fully revised second edition expands the geographic representation of the first edition by including chapters from practitioners in South Africa and Colombia, and adds exciting new chapters on the International Commission on Missing Persons and on forensic work being done to identify victims of the Battle of Fromelles during World War I. The Handbook of Forensic Anthropology and Archaeology provides an updated perspective of the disciplines of forensic archaeology and anthropology.

Heat Exchanger Design Handbook, Second Edition - Kuppan Thulukkanam 2013-05-20

Completely revised and updated to reflect current advances in heat exchanger technology, *Heat Exchanger Design Handbook, Second Edition* includes enhanced figures and thermal effectiveness charts, tables, new chapter, and additional topics—all while keeping the qualities that made the first edition a centerpiece of information for practicing engineers, research, engineers, academicians, designers, and manufacturers involved in heat exchange between two or more fluids. See What's New in the Second Edition: Updated information on pressure vessel codes, manufacturer's association standards A new chapter on heat exchanger installation, operation, and maintenance practices Classification chapter now includes coverage of scrapped surface-, graphite-, coil wound-, microscale-, and printed circuit heat exchangers Thorough revision of fabrication of shell and tube heat exchangers, heat transfer augmentation methods, fouling control concepts and inclusion of recent advances in PHEs New topics like EMBaffle®, Helixchanger®, and Twistedtube® heat exchanger, feedwater heater, steam surface condenser,

rotary regenerators for HVAC applications, CAB brazing and cupro-braze radiators Without proper heat exchanger design, efficiency of cooling/heating system of plants and machineries, industrial processes and energy system can be compromised, and energy wasted. This thoroughly revised handbook offers comprehensive coverage of single-phase heat exchangers—selection, thermal design, mechanical design, corrosion and fouling, FIV, material selection and their fabrication issues, fabrication of heat exchangers, operation, and maintenance of heat exchangers—all in one volume.

Corrosion and Stress Corrosion Testing of Aerospace Vehicle Structural Alloys - Russell Wanhill 2018-05-24

This SpringerBrief discusses the determination and classification of the ambient temperature corrosion and stress corrosion properties of aerospace structural alloys, with emphasis on (1) aluminium alloys, modern (3rd generation) aluminium-lithium alloys, stainless steels and titanium alloys and (2) some of the issues involved. Standard /reference data on environmental properties, including corrosion and stress corrosion, are mandatory for the qualification and certification of materials for aerospace vehicles, and also for the design of actual structures and components. Recommendations for further testing and evaluation are given at appropriate points in the text. The book concludes with a summary of the main topics.

Business Periodicals Index - 2004

Introduction to Axiomatic Set Theory - G. Takeuti 2012-12-06

In 1963, the first author introduced a course in set theory at the University of Illinois whose main objectives were to cover Godel's work on the con

sistency of the Axiom of Choice (AC) and the Generalized Continuum Hypothesis (GCH), and Cohen's work on the independence of the AC and the GCH. Notes taken in 1963 by the second author were taught by him in 1966, revised extensively, and are presented here as an introduction to axiomatic set theory. Texts in set theory frequently develop the subject rapidly moving from key result to key result and suppressing many details. Advocates of the fast development claim at least two advantages. First, key results are high lighted, and second, the student who wishes to master the subject is com pelled to develop the detail on his own. However, an instructor using a "fast development" text must devote much class time to assisting his students in their efforts to bridge gaps in the text.

Strategic Management and Business Policy - Thomas L. Wheelen 1998

Nuclear Science Abstracts - 1974

Turbine Aerodynamics - Ronald H. Aungier 2006

This book provides a thorough description of actual, working aerodynamic design and analysis systems, for both axial-flow and radial-flow turbines. It describes the basic fluid dynamic and thermodynamic principles, empirical models and numerical methods used for the full range of procedures and analytical tools that an engineer needs for virtually any type of aerodynamic design or analysis activity for both types of turbine. The book includes sufficient detail for readers to implement all or part of the systems. The author provides practical and effective design strategies for applying both turbine types, which are illustrated by design examples. Comparisons with experimental results

are included to demonstrate the prediction accuracy to be expected. This book is intended for practicing engineers concerned with the design and development of turbines and related machinery.

Mastering Formative Assessment Moves - Brent Duckor 2017-06-27

How do you know if students are with you at the beginning, middle, and end of a lesson? Can formative assessment offer a key to better teaching and learning during instruction? What if you could blend different formative assessment moves in your classroom, with intention and care for all students, to help make better instructional decisions on the fly and enjoy more teachable moments? Educators Brent Duckor and Carrie Holmberg invite you on the journey to becoming a formative assessor. They encourage you to focus on these seven research-based, high-leverage formative assessment moves: Priming--building on background knowledge and creating a formative assessment-rich, equitable classroom culture Posing--asking questions in relation to learning targets across the curriculum that elicit Habits of Mind Pausing--waiting after powerful questions and rich tasks to encourage more student responses by supporting them to think aloud and use speaking and listening skills related to academic language Probing--deepening discussions, asking for elaborations, and making connections using sentence frames and starters Bouncing--sampling student responses systematically to broaden participation, manage flow of conversation, and gather more "soft data" for instructional use Tagging--describing and recording student responses without judgment and making public how students with different styles and needs approach learning in real-time Binning--interpreting student responses with a wide range of

tools, categorizing misconceptions and “p-prims,” and using classroom generated data to make more valid and reliable instructional decisions on next steps in the lesson and unit Each chapter explores a classroom-tested move, including foundational research, explaining how and when to best use it, and describing what it looks like in practice. Highlights include case studies, try-now tasks and tips, and advice from beginning and seasoned teachers who use these formative assessment moves in their classrooms.

Bring Me the Rhinoceros - John Tarrant 2008-11-11

Bring Me the Rhinoceros is an unusual guide to happiness and a can opener for your thinking. For fifteen hundred years, Zen koans have been passed down through generations of masters, usually in private encounters between teacher and student. This book deftly retells more than a dozen traditional koans, which are partly paradoxical questions dangerous to your beliefs and partly treasure boxes of ancient wisdom. Koans show that you don't have to impress people or change into an improved, more polished version of yourself. Instead you can find happiness by unbuilding, unmaking, throwing overboard, and generally subverting unhappiness. John Tarrant brings the heart of the koan tradition out into the open, reminding us that the old wisdom remains as vital as ever, a deep resource available to anyone in any place or time.

Assessment of Fuel Economy Technologies for Light-Duty Vehicles - National Research Council 2011-06-03

Various combinations of commercially available technologies could greatly reduce fuel consumption in passenger cars, sport-utility vehicles, minivans, and other light-duty vehicles without compromising vehicle performance or safety. Assessment of Technologies for

Improving Light Duty Vehicle Fuel Economy estimates the potential fuel savings and costs to consumers of available technology combinations for three types of engines: spark-ignition gasoline, compression-ignition diesel, and hybrid. According to its estimates, adopting the full combination of improved technologies in medium and large cars and pickup trucks with spark-ignition engines could reduce fuel consumption by 29 percent at an additional cost of \$2,200 to the consumer. Replacing spark-ignition engines with diesel engines and components would yield fuel savings of about 37 percent at an added cost of approximately \$5,900 per vehicle, and replacing spark-ignition engines with hybrid engines and components would reduce fuel consumption by 43 percent at an increase of \$6,000 per vehicle. The book focuses on fuel consumption--the amount of fuel consumed in a given driving distance--because energy savings are directly related to the amount of fuel used. In contrast, fuel economy measures how far a vehicle will travel with a gallon of fuel. Because fuel consumption data indicate money saved on fuel purchases and reductions in carbon dioxide emissions, the book finds that vehicle stickers should provide consumers with fuel consumption data in addition to fuel economy information.

Handbook of Solid Phase Microextraction - Janusz Pawliszyn 2011-11-29

The relatively new technique of solid phase microextraction (SPME) is an important tool to prepare samples both in the lab and on-site. SPME is a "green" technology because it eliminates organic solvents from analytical laboratory and can be used in environmental, food and fragrance, and forensic and drug analysis. This handbook offers a thorough background of the theory and

practical implementation of SPME. SPME protocols are presented outlining each stage of the method and providing useful tips and potential pitfalls. In addition, devices and fiber coatings, automated SPME systems, SPME method development, and In Vivo applications are discussed. This handbook is essential for its discussion of the latest SPME developments as well as its in depth information on the history, theory, and practical application of the method. Practical application of Solid Phase Microextraction methods including detailed steps Provides history of extraction methods to better understand the process Suitable for all levels, from beginning student to experienced practitioner

Physics for Scientists and Engineers, Volume 2 - Raymond A. Serway 2013-01-01

Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Curve Ahead - Dave Power 2014-07-29

By examining the stories of companies like LoJack, MySpace and Groupon, an expert in Strategic Management describes how organizations can sustain high-growth through a repeatable process for innovation without succumbing to the growth hump. 30,000 first printing.

The Virginia Engineer - 2003

Fuel Cell Industry Report - 2005

The Impact of Publicity on Corporate Offenders - Brent Fisse 1983-01-01

Uncertainty surrounds the use of publicity as a means of controlling corporate crime. On the one hand, some agree with Justice Brandeis's dictum that light is "the best of disinfectants...the most efficient policeman." On the other hand, many believe that corporations' internal affairs are effectively shrouded with a thick fog that prevents the light of public scrutiny from reaching them. The Impact of Publicity on Corporate Offenders is the first study to go beyond the rhetoric, through an examination of corporate experience. Fisse and Braithwaite have carried out a qualitative inquiry concerning 17 large corporations involved in publicity crises. Based mainly on interviews, the inquiry includes company employees and former employees, union officials, officers of government regulatory agencies, competitors, independent accountants, government prosecutors, public interest activists, judicial officers, stockbrokers, and other experts.

Business Ethics - O. C. Ferrell 1990-12

Mechanics of Pneumatic Tires - United States. National Highway Traffic Safety Administration 1981

Robots, Healthcare, and the Law - Eduard Fosch-Villaronga 2019-11-04

The integration of robotic systems and artificial intelligence into healthcare settings is accelerating. As these technological developments interact socially

with children, the elderly, or the disabled, they may raise concerns besides mere physical safety; concerns that include data protection, inappropriate use of emotions, invasion of privacy, autonomy suppression, decrease in human interaction, and cognitive safety. Given the novelty of these technologies and the uncertainties surrounding the impact of care automation, it is unclear how the law should respond. This book investigates the legal and regulatory implications of the growing use of personal care robots for healthcare purposes. It explores the interplay between various aspects of the law, including safety, data protection, responsibility, transparency, autonomy, and dignity; and it examines different robotic and AI systems, such as social therapy robots, physical assistant robots for rehabilitation, and wheeled passenger carriers. Highlighting specific problems and challenges in regulating complex cyber-physical systems in concrete healthcare applications, it critically assesses the adequacy of current industry standards and emerging regulatory initiatives for robots and AI. After analyzing the potential legal and ethical issues associated with personal care robots, it concludes that the primarily principle-based approach of recent law and robotics studies is too abstract to be as effective as required by the personal care context. Instead, it recommends bridging the gap between general legal principles and their applicability in concrete robotic and AI technologies with a risk-based approach using impact assessments. As the first book to compile both legal and regulatory aspects of personal care robots, this book will be a valuable addition to the literature on robotics, artificial intelligence, human-robot interaction, law, and philosophy of technology.

Photovoltaic Module Reliability - John H. Wohlgemuth
2020-01-08

Provides practical guidance on the latest quality assurance and accelerated stress test methods for improved long-term performance prediction of PV modules. This book has been written from a historical perspective to guide readers through how the PV industry learned what the failure and degradation modes of PV modules were, how accelerated tests were developed to cause the same failures and degradations in the laboratory, and then how these tests were used as tools to guide the design and fabrication of reliable and long-life modules. Photovoltaic Module Reliability starts with a brief history of photovoltaics, discussing some of the different types of materials and devices used for commercial solar cells. It then goes on to offer chapters on: Module Failure Modes; Development of Accelerated Stress Tests; Qualification Testing; and Failure Analysis Tools. Next, it examines the use of quality management systems to manufacture PV modules. Subsequent chapters cover the PVQAT Effort; the Conformity Assessment and IECRE; and Predicting PV Module Service Life. The book finishes with a look at what the future holds for PV. A comprehensive treatment of current photovoltaic (PV) technology reliability and necessary improvement to become a significant part of the electric utility supply system. Well documented with experimental and practical cases throughout, enhancing relevance to both scientific community and industry. Timely contribution to the harmonization of methodological aspects of PV reliability evaluation with test procedures implemented to certify PV module quality. Written by a leading international authority in PV module reliability. Photovoltaic Module Reliability is an

excellent book for anyone interested in PV module reliability, including those working directly on PV module and system reliability and preparing to purchase modules for deployment.

Potential Failure Mode and Effects Analysis (FMEA) - 2008

Ludicrous - Edward Niedermeyer 2019-08-20

Tesla is the most exciting car company in a generation . . . but can it live up to the hype? Tesla Motors and CEO Elon Musk have become household names, shaking up the staid auto industry by creating a set of innovative electric vehicles that have wowed the marketplace and defied conventional wisdom. The company's market valuation now rivals that of long-established automakers, and, to many industry observers, Tesla is defining the future of the industry. But behind the hype, Tesla has some serious deficiencies that raise questions about its sky-high valuation, and even its ultimate survival. Tesla's commitment to innovation has led it to reject the careful, zero-defects approach of other car manufacturers, even as it struggles to mass-produce cars reliably, and with minimal defects. While most car manufacturers struggle with the razor-thin margins of mid-priced sedans, Tesla's strategy requires that the Model 3 finally bring it to profitability, even as the high-priced Roadster and Model S both lost money. And Tesla's approach of continually focusing on the future, even as commitments and deadlines are repeatedly missed, may ultimately test the patience of all but its most devoted fans. In *Ludicrous*, journalist and auto industry analyst Edward Niedermeyer lays bare the disconnect between the popular perception of Tesla and the day-to-day realities of the company—and the cars it

produces. Blending original reporting and never-before-published insider accounts with savvy industry analysis, Niedermeyer tells the story of Tesla as it's never been told before—with clear eyes, objectivity and insight.

Reliability and Risk Issues in Large Scale Safety-critical Digital Control Systems - Poong-Hyun Seong 2008-11-25

"Reliability and Risk Issues in Large Scale Safety-critical Digital Control Systems" provides a comprehensive coverage of reliability issues and their corresponding countermeasures in the field of large-scale digital control systems, from the hardware and software in digital systems to the human operators who supervise the overall process of large-scale systems. Unlike other books which examine theories and issues in individual fields, this book reviews important problems and countermeasures across the fields of software reliability, software verification and validation, digital systems, human factors engineering and human reliability analysis. Divided into four sections dealing with software reliability, digital system reliability, human reliability and human operators in large-scale digital systems, the book offers insights from professional researchers in each specialized field in a diverse yet unified approach.

Noise Control - Colin H. Hansen 2018-09-03

Noise Control: From Concept to Application presents the basic principles of noise control and their practical application to real problems. Numerous examples are worked out in detail and are used to illustrate the concepts in the book. There are few derivations of equations, but reference is made to texts from which these are derived. An excellent learning tool for students and practitioners, this guide to noise control

will enable readers to use their knowledge to solve a wide range of industrial noise control problems. Working from basic scientific principles, the author shows how an understanding of sound can be applied to real-world settings.

Handbook of Human Factors and Ergonomics - Gavriel Salvendy 2012-05-24

The fourth edition of the Handbook of Human Factors and Ergonomics has been completely revised and updated. This includes all existing third edition chapters plus new chapters written to cover new areas. These include the following subjects: Managing low-back disorder risk in the workplace Online interactivity Neuroergonomics Office ergonomics Social networking HF&E in motor vehicle transportation User requirements Human factors and ergonomics in aviation Human factors in ambient intelligent environments As with the earlier editions, the main purpose of this handbook is to serve the needs of the human factors and ergonomics researchers, practitioners, and graduate students. Each chapter has a strong theory and scientific base, but is heavily focused on real world applications. As such, a significant number of case studies, examples, figures, and tables are included to aid in the understanding and application of the material covered.

Linking Science and Technology to Society's Environmental Goals - National Research Council 1996-11-21

Where should the United States focus its long-term efforts to improve the nation's environment? What are the nation's most important environmental issues? What role should science and technology play in addressing these issues? Linking Science and Technology to Society's Environmental Goals provides the current

thinking and answers to these questions. Based on input from a range of experts and interested individuals, including representatives of industry, government, academia, environmental organizations, and Native American communities, this book urges policymakers to Use social science and risk assessment to guide decisionmaking. Monitor environmental changes in a more thorough, consistent, and coordinated manner. Reduce the adverse impact of chemicals on the environment. Move away from the use of fossil fuels. Adopt an environmental approach to engineering that reduces the use of natural resources. Substantially increase our understanding of the relationship between population and consumption. This book will be of special interest to policymakers in government and industry; environmental scientists, engineers, and advocates; and faculty, students, and researchers.

Paint Manual - Percy Hargraves Walker 1945

The Case of Terri Schiavo - Kenneth Goodman 2010

The case of Terri Schiavo is a watershed in debates over end-of-life care. This volume assembles a team of first-hand participants and content experts. It is intended for students, health care professionals, policy makers and others in search of carefully reasoned analyses of the case that will shape end-of-life care for decades.

Introduction to Tissue Engineering - Ravi Birla 2014-06-05

A comprehensive reference and teaching aid on tissueengineering—covering everything from the basics ofregenerative medicine to more advanced and forward thinking topicssuch as the artificial liver, bladder, and trachea Regenerative medicine/tissue engineering is the process ofreplacing or regenerating human cells,

tissues, or organs to restore or establish normal function. It is an incredibly progressive field of medicine that may, in the near future, help with the shortage of life-saving organs available through donation for transplantation. Introduction to Tissue Engineering: Applications and Challenges makes tissue engineering more accessible to undergraduate and graduate students alike. It provides a systematic and logical eight-step process for tissue fabrication. Specific chapters have been dedicated to provide in-depth principles for many of the supporting and enabling technologies during the tissue fabrication process and include biomaterial development and synthesis, bioreactor design, and tissue vascularization. The tissue fabrication process is further illustrated with specific examples for liver, bladder, and trachea. Section-coverage includes an overall introduction of tissue engineering; enabling and supporting technologies; clinical applications; and case studies and future challenges. Introduction to Tissue Engineering: Presents medical applications of stem cells in tissue engineering Deals with the effects of chemical stimulation (growth factors and hormones) Covers current disease pathologies and treatment options (pacemakers, prosthesis) Explains bioengineering, design and fabrication, and critical challenges during tissue fabrication Offers PowerPoint slides for instructors Features case studies and a section on future directions and challenges As pioneering individuals look ahead to the possibility of generating entire organ systems, students may turn to this text for a comprehensive

understanding and preparation for the future of regenerative medicine.

Electric and Hybrid Vehicles - Amir Khajepour 2014-03-05
An advanced level introductory book covering fundamental aspects, design and dynamics of electric and hybrid electric vehicles There is significant demand for an understanding of the fundamentals, technologies, and design of electric and hybrid electric vehicles and their components from researchers, engineers, and graduate students. Although there is a good body of work in the literature, there is still a great need for electric and hybrid vehicle teaching materials. Electric and Hybrid Vehicles: Technologies, Modeling and Control – A Mechatronic Approach is based on the authors' current research in vehicle systems and will include chapters on vehicle propulsion systems, the fundamentals of vehicle dynamics, EV and HEV technologies, chassis systems, steering control systems, and state, parameter and force estimations. The book is highly illustrated, and examples will be given throughout the book based on real applications and challenges in the automotive industry. Designed to help a new generation of engineers needing to master the principles of and further advances in hybrid vehicle technology Includes examples of real applications and challenges in the automotive industry with problems and solutions Takes a mechatronics approach to the study of electric and hybrid electric vehicles, appealing to mechanical and electrical engineering interests Responds to the increase in demand of universities offering courses in newer electric vehicle technologies