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Biomechanics and Motor Control: Defining Central Concepts provides a thorough update to the rapidly evolving fields of biomechanics of human motion and motor control with research published in biology, psychology, physics, medicine, physical therapy, robotics, and engineering consistently breaking new ground. This book clarifies the meaning of the most frequently used terms, and consists of four parts, with part one covering biomechanical concepts, including joint torques, stiffness and stiffness-like measures, viscosity, damping and impedance, and mechanical work and energy. Other sections deal with neurophysiological concepts used in motor control, such as muscle tone, reflex, pre-programmed reactions, efferent copy, and central pattern generator, and central motor control concepts, including redundancy and abundance, synergy, equilibrium-point hypothesis, and motor program, and posture and prehension from the field of motor behavior. The book is organized to cover smaller concepts within the context of larger concepts. For example, internal models are covered in the chapter on motor programs. Major concepts are not only defined, but given context as to how research came to use the term in this manner.

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Presents a unified approach to an interdisciplinary, fragmented area  
Defines key terms for understanding  
Identifies key theories, concepts, and applications across theoretical perspectives  
Provides historical context for definitions and theory evolution  
"Hormegeddon" is the term coined by entrepreneur and New York Times Bestselling Author Bill Bonner to describe what happens when you get too much of a good thing in the sphere of public policy, economics and business. Simply put, it ends in disaster. Drawing on stories and examples from throughout modern political history-from Napoleon's invasion of Russia to the impending collapse of the American healthcare system, from the outbreak of WWII and the fall of the Third Reich to the 21st century War on Terror, from the Great Recession to the sovereign debt crisis-Bonner pursues a modest ambition: to understand what goes wrong. History is not a clean yarn spun by its victors. It is a long tale of things that went FUBAR-debacles, disasters, and catastrophes. That each disaster carries with it a warning is what makes it useful to study. For instance, if the architect of a great ship tells you that 'not even God himself could sink this ship, ' you should take the next boat. If the stock market is selling at 20 times earnings and all the expert analysts urge you to 'get in' because you 'can't lose'-it's time to get out! Similarly, public policy disasters are what you get when well meaning

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people with this same Titanic degree of certitude apply rational, small-scale problem-solving logic to inappropriately large scale planning. First, you get a declining rate of return on your investment (of time or resources) until you hit zero. Then, if you keep going through the zero floor-and you always keep going-you get a disaster. The problem is, these disasters cannot be stopped by well-informed smart people with good intentions, because they are the people who cause them in the first place. From the mind of Bill Bonner comes Hormegeddon, a phenomenon that occurs when a small dose of something produces a favorable result, but if you increase the dosage, the results end in disaster. The same applies when the world gets too much of a good thing in public policy, economics, and business. Drawing on examples throughout modern political history, Bonner brings context and understanding to this largely ignored and anonymous phenomenon.

Special Features:

- Source codes for compiling and implementing ASR algorithms in C++ are included in electronic format on an accompanying CD-ROM.
- Contains a practical account of the functioning of ASR.
- Includes implementation-oriented mathematical and technical explanations of ASR.
- Features a stage-by-stage explanation of how to create an ASR interface.
- Can be used both for teaching speech recognition techniques and testing and development of new systems on digital signal

processing hardware About The Book: Automatic Speech Recognition (ASR) is becoming increasingly prevalent in such applications as private telephone exchanges and real-time on-line telephone information services. This book introduces the principles of ASR systems, including the theory and the implementation issues behind multi-speaker continuous speech ASR. The book supplies the full C++ code to further clarify the implementation details of a typical commercial/laboratory ASR system and to allow the readers to reach practical solutions for ASR-related problems. About the topic/technology Automatic Speech Recognition (ASR) is the technology behind the voice-triggered computer menus. Uses of these systems are now proliferating rapidly and include private telephone exchanges and real-time on-line telephone information services. Offers readers studying the English language exercises to achieve a higher level of proficiency to become effective communicators.

One of the chief difficulties in studying the history of Christianity is the lack of prior exposure to the subject that students often bring with them.

Struggling to keep up with the large numbers of names, dates, and places presented to them, it is easy for students to lose sight of the "big picture," the broad sweep of movement and change that instructors most wish to communicate. Justo

Gonzalez has written this book to help students gain

just such a quick and basic grasp of the main periods and issues in the history of Christianity. Drawing upon his own extensive experience and that of others, he contends that having been introduced to the essentials of church history in a brief and accessible form, students are far better able to understand and appreciate what they encounter in more detailed lectures and reading. Gonzalez provides a comprehensive opening chapter that summarizes major issues and concerns of each of the principal eras of church history. Subsequent chapters focus on the ancient church, the Christian empire, the Middle Ages, the Reformation, the seventeenth through nineteenth centuries, and the twentieth century and the end of modernity.

This comprehensive work presents the status and likely development of fault diagnosis, an emerging discipline of modern control engineering. It covers fundamentals of model-based fault diagnosis in a wide context, providing a good introduction to the theoretical foundation and many basic approaches of fault detection.

Mechanical engineering, an engineering discipline borne of the needs of the industrial revolution, is once again asked to do its substantial share in the call for industrial renewal. The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions, among others. The Mechanical Engineering Series

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features graduate texts and research monographs intended to address the need for information in contemporary areas of mechanical engineering. The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research. We are fortunate to have a distinguished roster of consulting editors on the advisory board, each an expert in one of the areas of concentration. The names of the consulting editors are listed on the next page of this volume. The areas of concentration are: applied mechanics; biomechanics; computational mechanics; dynamic systems and control; energetics; mechanics of materials; processing; thermal science; and tribology. This study guide I believe is the only most updated book that can get you from wherever you are now to passing Google's Associate Cloud Engineer certification exam. It is awesome because I have already used it to help many students pass their official google cloud certification exams. To help you build strong confidence before writing the exam, I have added challenge labs assessment tests bank flash card banks and official practice exam questions, answers and remarks clear, downloadable screenshots and summaries for quick exam revision how to create a free trial GCP account with \$300 credit you can use for 12 months I also provide support for everyone who bought this book.

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So if you did, you really have nothing to worry about. If you have questions, or if you need further help in your labs or hands-on projects, just contact me. I personally attend to every inquiry or concern of my readers and get back within 24 hours. This book includes use cases of the most recent Google Cloud Platform services. This ensures you have all you need to both pass your exam and to use the Google cloud in real life, even if you have little or no prior experience with the platform. You should get certified to prove you've learned the skills many companies need to run production workloads in the cloud. I have written this guide in three volumes to ensure I cover all the required domains. This guide is all you need because I put a lot of hard work into it to teach you how to cloud. Are you ready to get started? Order and read this book to begin your smooth journey to success in your Associate Cloud Engineer certification exam.

Expert Choice to build Business Intelligence landscapes and dashboards for Enterprises  
**KEY FEATURES** ? In-depth knowledge of Power BI, demonstrated through step-by-step exercises. ? Covers data modelling, visualization, and implementing security with complete hands-on training. ? Includes a project that simulates a realistic business environment from start to finish.

**DESCRIPTION** Mastering Power BI covers the entire Power BI implementation process. The

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readers will be able to understand all the concepts covered in this book, from data modelling to creating powerful - visualizations. This book begins with the concepts and terminology such as Star-Schema, dimensions and facts. It explains about multi-table dataset and demonstrates how to load these tables into Power BI. It shows how to load stored data in various formats and create relationships. Readers will also learn more about Data Analysis Expressions (DAX). This book is a must for the developers wherein they learn how to extend the usability of Power BI, to explore meaningful and hidden data insights. Throughout the book, you keep on learning about the concepts, techniques and expert practices on loading and shaping data, visualization design and security implementation. WHAT YOU WILL LEARN ? Learn about Business Intelligence (BI) concepts and its contribution in business analytics. ? Learn to connect, load, and transform data from disparate data sources. ? Start creating and executing powerful DAX calculations. ? Design various visualizations to prepare insightful reports and dashboards. WHO THIS BOOK IS FOR This book is for anyone interested in learning how to use Power BI desktop or starting a career in Business Intelligence and Analytics. While this covers all the fundamentals, it is recommended that the reader be familiar with MS-Excel and database concepts. TABLE OF CONTENTS 1. Understanding the Basics

2. Connect and Shape
3. Optimize your datamodel
4. Data Analysis Expressions (DAX)
5. Visualizations in Power BI
6. Power BI Service
7. Securing your application

Synergy discusses a general problem in biology: The lack of an adequate language for formulating biologically specific problems. Written for an inquisitive reader who is not necessarily a professional in the area of movement studies, this book describes the recent progress in the control and coordination of human movement. The book begins with a brief history of movement studies and reviews the current central controversies in the area of control of movements with an emphasis on the equilibrium-point hypothesis. An operational definition of synergy is introduced and a method of analysis of synergies is described based on the uncontrolled manifold hypothesis. Further this method is used to characterize synergies in a variety of tasks including such common motor tasks as standing, pointing, reaching, standing-up, and manipulation of hand-held objects. Applications of this method to movements by persons with neurological disorders, persons with atypical development and healthy elderly persons are illustrated, as well as changes in motor synergies with practice. Possible neurophysiological mechanisms of synergies are also discussed with the focus on such conspicuous structures as the

spinal cord, the cerebellum, the basal ganglia, and the cortex of the large hemispheres. A variety of models are discussed based on different computational and neurophysiological principles. Possible applications of the introduced definition of synergies to other areas such as perception and language are discussed.

Sensors for Health Monitoring discusses the characteristics of U-Healthcare systems in different domains, providing a foundation for working professionals and undergraduate and postgraduate students. The book provides information and advice on how to choose the best sensors for a U-Healthcare system, advises and guides readers on how to overcome challenges relating to data acquisition and signal processing, and presents comprehensive coverage of up-to-date requirements in hardware, communication and calculation for next-generation uHealth systems. It then compares new technological and technical trends and discusses how they address expected u-Health requirements. In addition, detailed information on system operations is presented and challenges in ubiquitous computing are highlighted. The book not only helps beginners with a holistic approach toward understanding u-Health systems, but also presents researchers with the technological trends and design challenges they may face when designing such systems. Presents an outstanding update on the use

of U-Health data analysis and management tools in different applications, highlighting sensor systems Highlights Internet of Things enabled U-Healthcare Covers different data transmission techniques, applications and challenges with extensive case studies for U-Healthcare systems

The implementation of robotics and automation in the food sector offers great potential for improved safety, quality and profitability by optimising process monitoring and control. Robotics and automation in the food industry provides a comprehensive overview of current and emerging technologies and their applications in different industry sectors. Part one introduces key technologies and significant areas of development, including automatic process control and robotics in the food industry, sensors for automated quality and safety control, and the development of machine vision systems. Optical sensors and online spectroscopy, gripper technologies, wireless sensor networks (WSN) and supervisory control and data acquisition (SCADA) systems are discussed, with consideration of intelligent quality control systems based on fuzzy logic. Part two goes on to investigate robotics and automation in particular unit operations and industry sectors. The automation of bulk sorting and control of food chilling and freezing is considered, followed by chapters on the use of robotics and automation in the processing and packaging of meat, seafood,

fresh produce and confectionery. Automatic control of batch thermal processing of canned foods is explored, before a final discussion on automation for a sustainable food industry. With its distinguished editor and international team of expert contributors, Robotics and automation in the food industry is an indispensable guide for engineering professionals in the food industry, and a key introduction for professionals and academics interested in food production, robotics and automation. Provides a comprehensive overview of current and emerging robotics and automation technologies and their applications in different industry sectors Chapters in part one cover key technologies and significant areas of development, including automatic process control and robotics in the food industry and sensors for automated quality and safety control Part two investigates robotics and automation in particular unit operations and industry sectors, including the automation of bulk sorting and the use of robotics and automation in the processing and packaging of meat, seafood, fresh produce and confectionery "As novelist and poet Andrei Codrescu points out in the essay that accompanies this selection of photographs from the Getty Museum's collection, Evans's photographs are the work of an artist whose temperament was distinctly at odds with Beals's impassioned rhetoric. Evans's photographs of Cuba were made by a young, still maturing artist who - as

Codrescu argues - was just beginning to combine his early, formalist aesthetic with the social concerns that would figure prominently in his later work."--Jacket.

Big data and the Internet of Things (IoT) play a vital role in prediction systems used in biological and medical applications, particularly for resolving issues related to disease biology at different scales.

Modelling and integrating medical big data with the IoT helps in building effective prediction systems for automatic recommendations of diagnosis and treatment. The ability to mine, process, analyse, characterize, classify and cluster a variety and wide volume of medical data is a challenging task. There is a great demand for the design and development of methods dealing with capturing and automatically analysing medical data from imaging systems and IoT sensors. Addressing analytical and legal issues, and research on integration of big data analytics with respect to clinical practice and clinical utility, architectures and clustering techniques for IoT data processing, effective frameworks for removal of misclassified instances, practicality of big data analytics, methodological and technical issues, potential of Hadoop in managing healthcare data is the need of the hour. This book integrates different aspects used in the field of healthcare such as big data, IoT, soft computing, machine learning, augmented reality, organs on chip, personalized

drugs, implantable electronics, integration of bio-interfaces, and wearable sensors, devices, practical body area network (BAN) and architectures of web systems. Key Features: Addresses various applications of Medical Big Data and Internet of Medical Things in real time environment Highlights recent innovations, designs, developments and topics of interest in machine learning techniques for classification of medical data Provides background and solutions to existing challenges in Medical Big Data and Internet of Medical Things Provides optimization techniques and programming models to parallelize the computationally intensive tasks in data mining of medical data Discusses interactions, advantages, limitations, challenges and future perspectives of IoT based remote healthcare monitoring systems. Includes data privacy and security analysis of cryptography methods for the Web of Medical Things (WoMT) Presents case studies on the next generation medical chair, electronic nose and pill cam are also presented. Actionable tools, processes and metrics for successfully managing innovation projects Conventional project management methods are oftentimes insufficient for managing innovation projects. Innovation is lost under the pre-determined scope and forecasted environments of traditional project management. There is tremendous pressure on organizations to innovate, and the project managers responsible for managing these innovation projects do not have the training or tools to do their jobs effectively.

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Innovation Project Management provides the tools, insights, and metrics needed to successfully manage innovation projects—helping readers identify problems in their organization, conceive elegant solutions, and, when necessary, promote changes to their organizational culture. There are several kinds of innovation—ranging from incremental changes to existing products to wholly original processes that emerge from market-disrupting new technology—that possess different characteristics and often require different tools. Best-selling author and project management expert Harold Kerzner integrates innovation, project management, and strategic planning to offer students and practicing professionals the essential tools and processes to analyze innovation from all sides. Innovation Project Management deconstructs traditional project management methods and explains why and how innovation projects should be managed differently. This invaluable resource: Provides practical advice and actionable tools for effectively managing innovation projects Offers value-based project management metrics and guidance on how to establish a metrics management program Shares exclusive insights from project managers at world-class organizations such as Airbus, Boeing, Hitachi, IBM, and Siemens on how they manage innovation projects Explores a variety of types of innovation including co-creation, value-driven, agile, open versus closed, and more Instructors have access to PowerPoint lecture slides by chapter through the book's companion website Innovation Project Management: Methods, Case Studies, and Tools for Managing Innovation Projects is an essential text for professional project managers, corporate managers, innovation team members, as well as students in project management, innovation and entrepreneurship programs.

Intended for machinery, mechanism, and device designers;

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engineers, technicians; and inventors and students, this fourth edition includes a glossary of machine design and kinematics terms; material on robotics; and information on nanotechnology and mechanisms applications.

Stress, Strain, and Structural Dynamics is a comprehensive and definitive reference to statics and dynamics of solids and structures, including mechanics of materials, structural mechanics, elasticity, rigid-body dynamics, vibrations, structural dynamics, and structural controls. This text integrates the development of fundamental theories, formulas and mathematical models with user-friendly interactive computer programs, written in the powerful and popular MATLAB. This unique merger of technical referencing and interactive computing allows instant solution of a variety of engineering problems, and in-depth exploration of the physics of deformation, stress and motion by analysis, simulation, graphics, and animation. This book is ideal for both professionals and students dealing with aerospace, mechanical, and civil engineering, as well as naval architecture, biomechanics, robotics, and mechatronics. For engineers and specialists, the book is a valuable resource and handy design tool in research and development. For engineering students at both undergraduate and graduate levels, the book serves as a useful study guide and powerful learning aid in many courses. And for instructors, the book offers an easy and efficient approach to curriculum development and teaching innovation. Combines knowledge of solid mechanics--including both statics and dynamics, with relevant mathematical physics and offers a viable solution scheme. Will help the reader better integrate and understand the physical principles of classical mechanics, the applied mathematics of solid mechanics, and computer methods. The Matlab programs will allow professional engineers to develop a wider range of complex engineering analytical problems,

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using closed-solution methods to test against numerical and other open-ended methods. Allows for solution of higher order problems at earlier engineering level than traditional textbook approaches.

Collects Hawkeye Annual #1, Hawkeye #14, #16, #18, #20. PCEP - Certified Entry-Level Python Programmer certification is a professional credential that measures your ability to accomplish coding tasks related to the essentials of programming in the Python language. A test candidate should demonstrate sufficient knowledge of the universal concepts of computer programming, the syntax and semantics of the Python language as well as the skills in resolving typical implementation challenges with the help of the Python Standard Library.

Describes the details of the calibration process step-by-step, covering systems modeling, measurement, identification, correction and performance evaluation. Calibration techniques are presented with an explanation of how they interact with each other as they are modified. Shows the reader how to determine if, in fact, a robot problem is a calibration problem and then how to analyze it.

The Hollywood Drama-Logue raved about "Deus Ex Machina" saying, "The play is a delight, it wonderfully places in perspective the more commercial aspects of the business of belief. ...wonderful vaudeville schtick, outright camp, and a fine understanding of man. ...comic and somehow touching characters in difficult outrageous comedy sequences creating a feeling of real people caught in a surrealistic future space. ...wit, wisdom and downright fun. Bailey makes his point clearly." The San Francisco Bay Guardian called it "One of the best original plays of the year." when it was presented in Berkeley and at the Pacific School of Religion."Deus Ex Machina" and its prologue piece, "The Hands of the Beholder" are absurd, dark comedies about true believers,

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religious fundamentalists, and mystics who claim special knowledge of God. They take place in a rapidly approaching future when uncontrollable fervor is leading to a vaudevillian Armageddon. "Deus Ex Machina" is based on the biblical story of "Abraham and Issac". The nuclear family has split on how to find God and save the world. Father and son join on a rampage to unleash the power that is supposed to be contained in calling out the true name of God. The wife and mother warns of the impending disaster that will be the result of their quest. Ignoring her, they rush headlong through a hilarious melee of mystical, religious, and scientific information as they seek to recreate the days when the money flowed and God smiled upon them."The Hands of the Beholder" sets the stage for the end of the world when anarchist historians urge that each and every person remain vigilant and become aggressively active in choosing the tools to use in creating history they way they think it should be. Together, they describe a time that has become increasing real and menacing, leaving us only with the ability to tell a few jokes and laugh as the world crumbles around us.

All electric and electronic products designed and produced for export to the European Economic Area (EEA) must now conform to the new EMC Directive 89/336/EEC, which came into force in 1996. Under these regulations, all devices designated for free trade must satisfy certain minimum requirements regarding safety and electromagnetic compatibility. CE Marking for the EMC Directive is a pivotal guide to achieving certification. It examines the requirements imposed by the EMC Directive and the various routes, which must be taken to achieve full compliance. This comprehensive volume explains

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how companies can certify their own products, saving both time and money. It contains the complete text of the EMC Directive and answers frequently asked questions on the certification process. Practical examples and well-organized diagrams and drawings make this book invaluable to the electrical and electronic product designer or manufacturer.

Beginning Queries with SQL is a friendly and easily read guide to writing queries with the all-important — in the database world — SQL language. Anyone who does any work at all with databases needs to know something of SQL, and that is evidenced by the strong sales of such books as Learning SQL (O'Reilly) and SQL Queries for Mere Mortals (Pearson). Beginning Queries with SQL is written by the author of Beginning Database Design, an author who is garnering great reviews on Amazon due to the clarity and succinctness of her writing.

The present book is based on the research papers presented in the International Conference on Emerging Trends in Science, Engineering and Technology 2012, held at Tiruchirapalli, India. The papers presented bridges the gap between science, engineering and technology. This book covers a variety of topics, including mechanical, production, aeronautical, material science, energy, civil and environmental energy, scientific management, etc. The prime objective of the book is to fully integrate

the scientific contributions from academicians, industrialists and research scholars.

Advances in forensic odontology have led to improvements in dental identification for individual cases as well as in disaster victim identification (DVI). New and updated technologies mean advances in bitemark analysis and age estimation. Growth in the field has strengthened missing persons' networks leading to more and faster identifications of unidentified individuals. A product of the American Society of Forensic Odontology, the Manual of Forensic Odontology, Fifth Edition provides comprehensive and up-to-date information involving all facets of forensic dentistry and explores critical issues relating to the scientific principles supporting the field's evaluations and conclusions. New information in the Fifth Edition includes Scientific principles and the need for more and better research in the field Oral and maxillofacial radiographic features of forensic interest Forensic pathology and its ties to forensic odontology New techniques and improved technologies for age estimation Advances in bitemark evidence management Animal bitemarks National and international forensic dental organizations Tips for becoming involved in forensic odontology The manual has been an important source of forensic dentistry information for more than 20 years. This new edition is edited by a past president of the

American Board of Forensic Odontology and a past Chair of the Odontology Section of the American Academy of Forensic Sciences. Expanded and enhanced with extensive color illustrations, this volume is designed to provide essential information based on sound scientific principles for experienced forensic odontologists and for those new to the discipline.

This book reports on the latest technological and clinical advances in the field of neurorehabilitation. It is, however, much more than a conventional survey of the state-of-the-art in neurorehabilitation technologies and therapies. It was written on the basis of a week of lively discussions between PhD students and leading research experts during the Summer School on Neurorehabilitation (SSNR2014), held September 15-19 in Baiona, Spain. Its unconventional format makes it a perfect guide for all PhD students, researchers and professionals interested in gaining a multidisciplinary perspective on current and future neurorehabilitation scenarios. The book addresses various aspects of neurorehabilitation research and practice, including a selection of common impairments affecting CNS function, such as stroke and spinal cord injury, as well as cutting-edge rehabilitation and diagnostics technologies, including robotics, neuroprosthetics, brain-machine interfaces and neuromodulation. Authoritative coverage of a revolutionary technique

for overcoming problems in electromagnetic design Genetic algorithms are stochastic search procedures modeled on the Darwinian concepts of natural selection and evolution. The machinery of genetic algorithms utilizes an optimization methodology that allows a global search of the cost surface via statistical random processes dictated by the Darwinian evolutionary concept. These easily programmed and readily implemented procedures robustly locate extrema of highly multimodal functions and therefore are particularly well suited to finding solutions to a broad range of electromagnetic optimization problems. Electromagnetic Optimization by Genetic Algorithms is the first book devoted exclusively to the application of genetic algorithms to electromagnetic device design. Compiled by two highly competent and well-respected members of the electromagnetics community, this book describes numerous applications of genetic algorithms to the design and optimization of various low- and high-frequency electromagnetic components. Special features include: \* Introduction by David E. Goldberg, "A Meditation on the Application of Genetic Algorithms" \* Design of linear and planar arrays using genetic algorithms \* Application of genetic algorithms to the design of broadband, wire, and integrated antennas \* Genetic algorithm-driven design of dielectric gratings and frequency-selective surfaces \* Synthesis of magnetostatic devices using

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genetic algorithms \* Application of genetic algorithms to multiobjective electromagnetic backscattering optimization \* A comprehensive list of the up-to-date references applicable to electromagnetic design problems Supplemented with more than 250 illustrations, *Electromagnetic Optimization by Genetic Algorithms* is a powerful resource for electrical engineers interested in modern electromagnetic designs and an indispensable reference for university researchers.

This atlas presents technical information for professionals who process and use temperate or tropical timber. It combines the main technical characteristics of 283 tropical species and 17 species from temperate regions most commonly used in Europe with their primary uses.

"Sapphire's birthday is nearly here and her friends are planning a magical party. But Troy has been behaving strangely—could he be keeping a secret from the others?" (publisher)?

Richly illustrated and presented in clear, concise language, *Biomechanics of Skeletal Muscles* is an essential resource for those seeking advanced knowledge of muscle biomechanics. Written by leading experts Vladimir Zatsiorsky and Boris Prilutsky, the text is one of the few to look at muscle biomechanics in its entirety—from muscle fibers to muscle coordination—making it a unique contribution to the field. Using a blend of experimental evidence

and mechanical models, *Biomechanics of Skeletal Muscles* provides an explanation of whole muscle biomechanics at work in the body in motion. The book first addresses the mechanical behavior of single muscles—from the sarcomere level up to the entire muscle. The architecture of human muscle, the mechanical properties of tendons and passive muscles, the biomechanics of active muscles, and the force transmission and shock absorption aspects of muscle are explored in detail. Next, the various issues of muscle functioning during human motion are addressed. The transformation from muscle force to joint movements, two-joint muscle function, eccentric muscle action, and muscle coordination are analyzed. This advanced text assumes some knowledge of algebra and calculus; however, the emphasis is on understanding physical concepts. Higher-level computational descriptions are placed in special sections in the later chapters of the book, allowing those with a strong mathematical background to explore this material in more detail. Readers who choose to skip over these sections will find that the book still provides a strong conceptual understanding of advanced topics. *Biomechanics of Skeletal Muscles* also contains numerous special features that facilitate readers' comprehension of the topics presented. More than 300 illustrations and accompanying explanations provide an extensive visual representation of muscle biomechanics.

Refresher sidebars offer brief reminders of mathematical and biomechanical concepts, and From the Literature sidebars present practical examples that illustrate the concepts under discussion. Chapter summaries and review questions provide an opportunity for reflection and self-testing, and reference lists at the end of each chapter provide a starting point for further study. Biomechanics of Skeletal Muscles offers a thorough explanation of whole muscle biomechanics, bridging the gap between foundational biomechanics texts and scientific literature. With the information found in this text, readers can prepare themselves to better understand the latest in cutting-edge research. Biomechanics of Skeletal Muscles is the third volume in the Biomechanics of Human Motion series. Advanced readers in human movement science gain a comprehensive understanding of the biomechanics of human motion as presented by one of the world's foremost researchers on the subject, Dr. Vladimir Zatsiorsky. The series begins with Kinematics of Human Motion, which details human body positioning and movement in three dimensions; continues with Kinetics of Human Motion, which examines the forces that create body motion and their effects; and concludes with Biomechanics of Skeletal Muscles, which explains the action of the biological motors that exert force and produce mechanical work during human movement.

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From "the architect" to "the king slayer," WWE superstar Seth Rollins has been known by some iconic nicknames. A staple in WWE main events for many years now, Rollins always brings a fire and persistence to his wrestling that fans appreciate and other wrestlers admire. But he started as just a kid from Iowa with a dream. This volume follows his path to the ring through his career as an indie wrestler to headlining WrestleMania, complete with full-color photographs of some of his best matches. Low-level text and an engaging tone draw in struggling and emerging readers.

This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.

Internet is based on TCP/IP. There are many terms like IP, DNS, VPN, etc., and the books explaining them are so detailed. This book introduces you to the World of TCP/IP. You will have a basic understanding of TCP/IP after reading this book. IP address types, DHCP, DNS, NAT, Proxy, VPN and IPv6 subjects are explained. And it is funny somewhat:)

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This book addresses information technologies recently applied in the field of construction safety. Combining case studies, literature reviews and interviews to study the issue, it presents cutting-edge applications of various information technologies (ITs) in construction in different parts of the world, together with a wealth of figures, tables and examples. Though primarily intended for researchers and experts in the field, the book will also benefit graduate students.

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