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### Designing for Earthquakes

## A Manual for Architects. Fema 454 / December 2006. (Risk Management Series)

**www.Militarybookshop.CompanyUK** *This full color manual is intended to explain the principles of seismic design for those without a technical background in engineering and seismology. The primary intended audience is that of architects, and includes practicing architects, architectural students and faculty in architectural schools who teach structures and seismic design. For this reason the text and graphics are focused on those aspects of seismic design that are important for the architect to know.*

## Serious Games and Edutainment Applications

### Volume II

**Springer** *With the continued application of gaming for training and education, which has seen exponential growth over the past two decades, this book offers an insightful introduction to the current developments and applications of game technologies within educational settings, with cutting-edge academic research and industry insights, providing a greater understanding into current and future developments and advances within this field. Following on from the success of the first volume in 2011, researchers from around the world presents up-to-date research on a broad range of new and emerging topics such as serious games and emotion, games for music education and games for medical training, to gamification, bespoke serious games, and adaptation of commercial off-the shelf games for education and narrative design, giving readers a thorough understanding of the advances and current issues facing developers and designers regarding games for training and education. This second volume of Serious Games and Edutainment Applications offers further insights for researchers, designers and educators who are interested in using serious games for training and educational purposes, and gives game developers with detailed information on current topics and developments within this growing area.*

### 3D QSAR in Drug Design

## Ligand-Protein Interactions and Molecular Similarity

**Springer Science & Business Media** *Significant progress has been made in the study of three-dimensional quantitative structure-activity relationships (3D QSAR) since the first publication by Richard Cramer in 1988 and the first volume in the series. 3D QSAR in Drug Design. Theory, Methods and Applications, published in 1993. The aim of that early book was to contribute to the understanding and the further application of CoMFA and related approaches and to facilitate the appropriate use of these methods. Since then, hundreds of papers have appeared using the quickly developing techniques of both 3D QSAR and computational sciences to study a broad variety of biological problems. Again the editor(s) felt that the time had come to solicit reviews on published and new viewpoints to document the state of the art of 3D QSAR in its broadest definition and to provide visions of where new techniques will emerge or new applications may be found. The intention is not only to highlight new ideas but also to show the shortcomings, inaccuracies, and abuses of the methods. We hope this book will enable others to separate trivial from visionary approaches and me-too methodology from innovative techniques. These concerns guided our choice of contributors. To our delight, our call for papers elicited a great many manuscripts.*

### Big Data and Smart Digital Environment

**Springer** *This book reviews the state of the art of big data analysis and smart city. It includes issues which pertain to signal processing, probability models, machine learning, data mining, database, data engineering, pattern recognition, visualisation, predictive analytics, data warehousing, data compression, computer programming, smart city, etc. Data is becoming an increasingly decisive resource in modern societies, economies, and governmental organizations. Data science inspires novel techniques and theories drawn from mathematics, statistics, information theory, computer science, and social science. Papers in this book were the outcome of research conducted in this field of study. The latter makes use of applications and techniques related to data analysis in*

general and big data and smart city in particular. The book appeals to advanced undergraduate and graduate students, postdoctoral researchers, lecturers and industrial researchers, as well as anyone interested in big data analysis and smart city.

## Android Application Development Programming with the Google SDK

**O'Reilly Media, Incorporated** This practical book provides the concepts and code you need to develop software with Android, the open-source platform for cell phones and mobile devices that's generating enthusiasm across the industry. Based on the Linux operating system and developed by Google and the Open Handset Alliance, Android has the potential to unite a fragmented mobile market. *Android Application Development* introduces this programming environment, and offers you a complete working example that demonstrates Android architectural features and APIs. With this book, you will: Get a complete introduction to the Android programming environment, architecture, and tools Build a modular application, beginning with a core module that serves to launch modules added in subsequent chapters Learn the concepts and architecture of a specific feature set, including views, maps, location-based services, persistent data storage, 2D and 3D graphics, media services, telephony services, and messaging Use ready-to-run example code that implements each feature Delve into advanced topics, such as security, custom views, performance analysis, and internationalization The book is a natural complement to the existing Android documentation provided by Google. Whether you want to develop a commercial application for mobile devices, or just want to create a mobile mashup for personal use, *Android Application Development* demonstrates how you can design, build, and test applications for the new mobile market.

## Participating in Crime

**The Stationery Office** This is the second of two Commission reports which examine options for reform of the law relating to criminal liability for encouraging or assisting another person to commit an offence (the previous report 'Inchoate liability for assisting and encouraging crime' was published in July 2006 as Cm. 6878 (Law Com. no. 300, ISBN 9780101687829). This report focuses on the law of secondary liability and examines the problems with the law as it currently stands; the differences between inchoate liability and secondary liability; recommendations to introduce statutory schemes of secondary liability and of innocent agency and a new offence of causing the commission of a no fault offence; defences and exemptions; and extra-territorial jurisdiction. It includes the text of two draft bills: *Participating in Crime Bill* and *Participating in Crime (Jurisdiction, Procedure and Consequential Provisions) Bill*. Taken together, the recommendations contained in both reports seek to establish a system whereby inchoate and secondary liability will support and supplement each other in a way that is rational and fair.

## FISH Technology

**Springer Science & Business Media** Fluorescence in situ hybridization (FISH) has been developed as a powerful technology which allows direct visualisation or localisation of genomic alterations. The technique has been adopted to a range of applications in both medicine, especially in the areas of diagnostic cytogenetics, and biology. Topics described in this manual include: FISH on native human tissues, such as blood, bone marrow, epithelial cells, hair root cells, amniotic fluid cells, human sperm cells; FISH on archival human tissues, such as formalin fixed and paraffin embedded tissue sections, cryofixed tissue; simultaneous detection of apoptosis and expression of apoptosis-related genes; comparative genomic hybridization; and special FISH techniques.

## Software Engineering for Robotics

**Springer Nature** The topics covered in this book range from modeling and programming languages and environments, via approaches for design and verification, to issues of ethics and regulation. In terms of techniques, there are results on model-based engineering, product lines, mission specification, component-based development, simulation, testing, and proof. Applications range from manufacturing to service robots, to autonomous vehicles, and even robots that evolve in the real world. A final chapter summarizes issues on ethics and regulation based on discussions from a panel of experts. The origin of this book is a two-day event, entitled *RoboSoft*, that took place in November 2019, in London. Organized with the generous support of the Royal Academy of Engineering and the University of York, UK, *RoboSoft* brought together more than 100 scientists, engineers and practitioners from all over the world, representing 70 international institutions. The intended readership includes researchers and practitioners with all levels of experience interested in working in the area of robotics, and software engineering more generally. The chapters are all self-contained, include explanations of the core concepts, and finish with a discussion of directions for further work. Chapters 'Towards Autonomous Robot Evolution', 'Composition, Separation of Roles and Model-Driven Approaches as Enabler of a Robotics Software Ecosystem' and 'Verifiable Autonomy and Responsible Robotics' are available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com).

## The Supporting Roots of Trees and Woody Plants: Form, Function and Physiology

**Springer Science & Business Media** This publication comprises the proceedings of the first International Conference devoted to the structural roots of trees and woody plants. 'The Supporting Roots - Structure and Function,' 20-24 July 1998, Bordeaux, France. The meeting was held under the auspices of IUFRO WPS 2. 01. 13 'Root Physiology and Symbiosis,' and its aim was to bring together scientific researchers, foresters and arboriculturalists, to discuss current problems in structural root research and disseminate

knowledge to an audience from a wide disciplinary background. For the first time in an international conference, emphasis was placed on presenting recent research in the field of tree anchorage mechanics and root biomechanics. The way in which tree stability can be affected by root system symmetry and architecture was addressed, as well as how movement during wind sway can influence the development and shape of woody roots. The role of different nursery and planting techniques was discussed, in relation to effects on root system form and development. Root response to different environmental stresses, including water, temperature, nutrient and mechanical stress was addressed in detail. The structure and function of woody roots was also considered at different levels, from coarse to fine roots, with several papers discussing the interaction between roots and the rhizosphere. One of the conference highlights was the presentation of new methods in root research, by a series of workshops held at LRBB-INRA, Pierroton, on the northern border of the Gascony forest.

## Materials and Processes

### for Spacecraft and High Reliability Applications

**Springer** The objective of this book is to assist scientists and engineers select the ideal material or manufacturing process for particular applications; these could cover a wide range of fields, from light-weight structures to electronic hardware. The book will help in problem solving as it also presents more than 100 case studies and failure investigations from the space sector that can, by analogy, be applied to other industries. Difficult-to-find material data is included for reference. The sciences of metallic (primarily) and organic materials presented throughout the book demonstrate how they can be applied as an integral part of spacecraft product assurance schemes, which involve quality, material and processes evaluations, and the selection of mechanical and component parts. In this successor edition, which has been revised and updated, engineering problems associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs. Space hardware captured by astronauts and returned to Earth from long durations in space are examined. Information detailed in the Handbook is applicable to general terrestrial applications including consumer electronics as well as high reliability systems associated with aeronautics, medical equipment and ground transportation. This Handbook is also directed to those involved in maximizing the reliability of new materials and processes for space technology and space engineering. It will be invaluable to engineers concerned with the construction of advanced structures or mechanical and electronic sub-systems.

## Information Technology and the U.S. Workforce

### Where Are We and Where Do We Go from Here?

**National Academies Press** Recent years have yielded significant advances in computing and communication technologies, with profound impacts on society. Technology is transforming the way we work, play, and interact with others. From these technological capabilities, new industries, organizational forms, and business models are emerging. Technological advances can create enormous economic and other benefits, but can also lead to significant changes for workers. IT and automation can change the way work is conducted, by augmenting or replacing workers in specific tasks. This can shift the demand for some types of human labor, eliminating some jobs and creating new ones. *Information Technology and the U.S. Workforce* explores the interactions between technological, economic, and societal trends and identifies possible near-term developments for work. This report emphasizes the need to understand and track these trends and develop strategies to inform, prepare for, and respond to changes in the labor market. It offers evaluations of what is known, notes open questions to be addressed, and identifies promising research pathways moving forward.

## Build Your Own High-end Audio Equipment

**Elektor International Media** Top of the range hi-fi apparatus is now termed 'high-end equipment' and the name is a good indication of the prices charged for it. For those who can not, or will not, pay these prices, there is another solution offered in this book: build your own (at considerable cost savings). But this book is aimed not only at this sector of the market, but also at the many enthusiasts who want to be able to experiment and make their own modifications to their 'high-end' equipment. This book contains construction projects for solid-state and valve preamplifiers and power amplifiers, active cross-over filters, an active subwoofer, a mono/stereo compressor and a headphone amplifier.

## The Social Media Bible

### Tactics, Tools, and Strategies for Business Success

**John Wiley & Sons** The ultimate comprehensive social media reference book for any business looking to transform its marketing and operational strategies. Realizing that social media is dramatically impacting businesses, customers, and everyone connected to them, the authors of *The Social Media Bible* have consulted with leading social media experts from companies and consulting firms, as well as New York Times bestselling authors nationwide, to assemble a content-rich social media bible that will help businesses increase revenues, improve profitability, and ensure relevance and competitiveness. The book outlines just what social media is, and how to harness its power to achieve a measurable competitive advantage in rapidly changing markets. It allows readers to build a functional knowledge base, and tap into the collaborative power of such social media applications as Facebook, Linked In, Twitter, MySpace,

*Flickr, and YouTube. The book is part reference, part how-to manual, and part business strategy. For corporate enterprises, small businesses, and nonprofits alike, the strategies in The Social Media Bible are practical, powerful, and effective ways to connect with customers, prospects, employees, stakeholders, and collaborators. Packed with contributions from top names in the field covering virtually every major topic in social media, this is the perfect social media resource for businesses big and small. Lon Safko (Gilbert, AZ) is an innovator and professional speaker with over 20 years of experience in entrepreneurship, marketing, sales, strategic partnering, speaking, training, writing, and e-commerce. He is the founder of eight successful companies, including Paper Models, Inc. David K. Brake (Mesa, AZ) is the CEO and founder of Content Connections, a company that uses social networking strategies to help clients build economically viable relationships around their content.*

## Futuristic Communication and Network Technologies

### Select Proceedings of VICFCNT 2020

**Springer Nature** *This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication.*

## Mobile Computing, Applications, and Services

### 7th International Conference, MobiCASE 2015, Berlin, Germany, November 12-13, 2015, Revised Selected Papers

**Springer** *This book constitutes the proceedings of the 7th International Conference on Mobile Computing, Applications, and Services (MobiCASE 2015) held in Berlin, Germany, in November 2015. The 16 full and 4 poster papers were carefully reviewed and selected from 43 submissions, and are presented together with 4 papers from the First Workshop on Situation Recognition by Mining Temporal Information (SIREMETI 2015). The conference papers cover the following topics: intelligent caching, activity recognition and crowdsourcing, mobile frameworks, middleware, interactive applications and mobility.*

## Recent Advances in QSAR Studies

### Methods and Applications

**Springer Science & Business Media** *This book presents an interdisciplinary overview on the most recent advances in QSAR studies. The first part consists of a comprehensive review of QSAR methodology. The second part highlights the interdisciplinary aspects and new areas of QSAR modelling.*

## Machining of Metal Matrix Composites

**Springer Science & Business Media** *Machining of Metal Matrix Composites provides the fundamentals and recent advances in the study of machining of metal matrix composites (MMCs). Each chapter is written by an international expert in this important field of research. Machining of Metal Matrix Composites gives the reader information on machining of MMCs with a special emphasis on aluminium matrix composites. Chapter 1 provides the mechanics and modelling of chip formation for traditional machining processes. Chapter 2 is dedicated to surface integrity when machining MMCs. Chapter 3 describes the machinability aspects of MMCs. Chapter 4 contains information on traditional machining processes and Chapter 5 is dedicated to the grinding of MMCs. Chapter 6 describes the dry cutting of MMCs with SiC particulate reinforcement. Finally, Chapter 7 is dedicated to computational methods and optimization in the machining of MMCs. Machining of Metal Matrix Composites can serve as a useful reference for academics, manufacturing and materials researchers, manufacturing and mechanical engineers, and professionals involved with MMC applications. It can also be used to teach modern manufacturing engineering or as a textbook for advanced undergraduate and postgraduate engineering courses in machining, manufacturing or materials.*

## Mobile Lightweight Wireless Systems

# Second International ICST Conference, Mobilight 2010, May 10-12, 2010, Barcelona, Spain, Revised Selected Papers

**Springer Science & Business Media** *Following the success of the First MOBILIGHT 2009 in Athens, Greece, the Second International Conference on Mobile Lightweight Systems (MOBILIGHT) was held in Barcelona, Spain on May 10-12, 2010. It was not an easy decision to carry on organizing a scientific event on wireless communications, where competition is really enormous. This decision was motivated by discussion with many colleagues about the current unprecedented demand for lightweight, wireless communication devices with high usability and performance able to support added-value services in a highly mobile environment. Such devices follow the users everywhere they go (at work, at home, while travelling, in a classroom, etc. ) and result in exciting research, development and business opportunities. Such scenarios clearly demand significant upgrades to the existing communication paradigm in terms of infrastructure, devices and services to support the "anytime, anywhere, any device" philosophy, providing novel and fast-evolving requirements and expectations on - search and development in the field of information and communication technologies. The core issue is to support wireless users' desire for 24/7 network availability and transparent access to "their own" services. In this context, we continue to envision an international forum where practitioners and researchers coming from the many areas involved in lightweight wireless systems' design and deployment would be able to interact and exchange experiences.*

## Progresses in Artificial Intelligence and Neural Systems

**Springer Nature** *This book provides an overview of the current advances in artificial intelligence and neural nets. Artificial intelligence (AI) methods have shown great capabilities in modelling, prediction and recognition tasks supporting human-machine interaction. At the same time, the issue of emotion has gained increasing attention due to its relevance in achieving human-like interaction with machines. The real challenge is taking advantage of the emotional characterization of humans' interactions to make computers interfacing with them emotionally and socially credible. The book assesses how and to what extent current sophisticated computational intelligence tools might support the multidisciplinary research on the characterization of appropriate system reactions to human emotions and expressions in interactive scenarios. Discussing the latest recent research trends, innovative approaches and future challenges in AI from interdisciplinary perspectives, it is a valuable resource for researchers and practitioners in academia and industry.*

## The Transhumanism Handbook

**Springer** *Modern humanity with some 5,000 years of recorded history has been experiencing growing pains, with no end in sight. It is high time for humanity to grow up and to transcend itself by embracing transhumanism. Transhumanism offers the most inclusive ideology for all ethnicities and races, the religious and the atheists, conservatives and liberals, the young and the old regardless of socioeconomic status, gender identity, or any other individual qualities. This book expounds on contemporary views and practical advice from more than 70 transhumanists. Astronaut Neil Armstrong said on the Apollo 11 moon landing in 1969, "One small step for a man, one giant leap for mankind." Transhumanism is the next logical step in the evolution of humankind, and it is the existential solution to the long-term survival of the human race.*

## Knowledge-Based Social Entrepreneurship

## Understanding Knowledge Economy, Innovation, and the Future of Social Entrepreneurship

**Springer** *Social entrepreneurship is on the rise and social enterprises are solving some of the most critical and enduring social problems by using innovative, pragmatic and sustainable business models. Access to knowledge thanks to the Internet and rapid expansion of the knowledge economy are opening new opportunities for social ventures. With knowledge-based social entrepreneurship where knowledge is the primary resource, more pressing social problems can be addressed by using advanced technologies. This book investigates this emerging concept, possibilities that it holds, its place in today's economy, and links bridges between knowledge, innovation, and social entrepreneurship. Academics, entrepreneurs, students, and NGOs will find the theoretical and practical information presented in this book extremely valuable.*

## Inchoate Liability for Assisting and Encouraging Crime

**The Stationery Office** *This report examines the possible reform of the current law relating to criminal liability for encouraging or assisting another person to commit an offence. There are currently three inchoate offences in common law which seek to punish conduct which enhances the prospect of actual harm occurring (relating to: attempt, conspiracy and incitement) but no inchoate offence to cover assisting a person to commit an offence if subsequently the offence is not committed or attempted. The Commission's report recommends the creation of two new statutory offences which relate to encouragement or assistance in the commission of an offence by either intending to encourage or assist its commission or believing that it will be committed. The report*

also sets out a number of recommended defences to the proposed offences. A second report focusing on the law of secondary liability will be published subsequently following consultation with legal experts.

## Stratigraphy: A Modern Synthesis

**Springer** *A Comprehensive review of modern stratigraphic methods. The stratigraphic record is the major repository of information about the geological history of Earth, a record stretching back for nearly 4 billion years. Stratigraphic studies fill out our planet's plate-tectonic history with the details of paleogeography, past climates, and the record of evolution, and stratigraphy is at the heart of the effort to find and exploit fossil fuel resources. Modern stratigraphic methods are now able to provide insights into past geological events and processes on time scales with unprecedented accuracy and precision, and have added much to our understanding of global tectonic and climatic processes. It has taken 200 years and a modern revolution to bring all the necessary developments together to create the modern, dynamic science that this book sets out to describe. Stratigraphy now consists of a suite of integrated concepts and methods, several of which have considerable predictive and interpretive power. The new, integrated, dynamic science that Stratigraphy has become is now inseparable from what were its component parts, including sedimentology, chronostratigraphy, and the broader aspects of basin analysis.*

## Information Technology and Mobile Communication

### International Conference, AIM 2011, Nagpur, Maharashtra, India, April 21-22, 2011, Proceedings

**Springer Science & Business Media** *This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication, AIM 2011, held at Nagpur, India, in April 2011. The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions. The papers cover all current issues in theory, practices, and applications of Information Technology, Computer and Mobile Communication Technology and related topics.*

## The Pangenome

**Springer Nature** *This open access book offers the first comprehensive account of the pan-genome concept and its manifold implications. The realization that the genetic repertoire of a biological species always encompasses more than the genome of each individual is one of the earliest examples of big data in biology that opened biology to the unbounded. The study of genetic variation observed within a species challenges existing views and has profound consequences for our understanding of the fundamental mechanisms underpinning bacterial biology and evolution. The underlying rationale extends well beyond the initial prokaryotic focus to all kingdoms of life and evolves into similar concepts for metagenomes, phenomes and epigenomes. The books respective chapters address a range of topics, from the serendipitous emergence of the pan-genome concept and its impacts on the fields of microbiology, vaccinology and antimicrobial resistance, to the study of microbial communities, bioinformatic applications and mathematical models that tie in with complex systems and economic theory. Given its scope, the book will appeal to a broad readership interested in population dynamics, evolutionary biology and genomics.*

## Applied Biocatalysis

### The Chemist's Enzyme Toolbox

**John Wiley & Sons** *Provides clear and comprehensive coverage of recently developed applied biocatalysis for synthetic organic chemists with an emphasis to promote green chemistry in pharmaceutical and process chemistry This book aims to make biocatalysis more accessible to both academic and industrial synthetic organic chemists. It focuses on current topics within the applied industrial biocatalysis field and includes short but detailed experimental methods on timely novel biocatalytic transformations using new enzymes or new methodologies using known enzymes. The book also features reactions that are "expanding and making the enzyme toolbox available to chemists"—providing readers with comprehensive methodology and detailed key sourcing information of a wide range of enzymes. Chapters in Applied Biocatalysis: The Chemist's Enzyme Toolkit are organized by reaction type and feature a short introductory section describing the current state of the art for each example. Much of the book focuses on processes for which the enzymes are readily available so that organic chemists can synthesize appropriate quantities of chemicals with available materials in a standard chemical laboratory. Advanced methods are included to present examples of new enzymes that might encourage collaboration with suppliers or academic groups and that will educate chemists of rapidly expanding future possibilities. Focuses on current topics within the applied industrial biocatalysis field Offers experimental methods on novel biocatalytic transformations using new enzymes or new methodology using known enzymes Covers the hot topics of enzyme and chemoenzymatic cascades and biocatalysis in flow Edited by noted experts from both academia and industry with years of experience in the field of biocatalysis—particularly, the industrial applications of enzymes Written for synthetic organic chemists working in all industries but especially the pharmaceutical industry and for those in academia with an eye for biocatalysis, Applied Biocatalysis: The Chemist's Enzyme Toolkit will also benefit academic groups in chemistry and related sciences that are using enzymes for synthetic purposes, as well as those working in the area of enzymology and molecular biology.*

# Proceedings of the 9th International Symposium on Superalloy 718 & Derivatives: Energy, Aerospace, and Industrial Applications

**Springer** *This technical meeting will focus on Alloy 718 and Superalloys in this class relative to alloy and process development, production, product applications, trends and the development of advanced modeling tools. The symposium provides an opportunity for authors to present technical advancements relative to a broad spectrum of areas while assessing their impact on related fields associated with this critical alloy group. There are continuing innovations relative to these alloys as well as novel processing techniques which continue to extend applications in very challenging environments ranging from corrosion resistance in the deep sea to high-stressed space applications.*

## The Modern Louisiana Maneuvers

## Silicon Photonics III

## Systems and Applications

**Springer Science & Business Media** *This book is volume III of a series of books on silicon photonics. It reports on the development of fully integrated systems where many different photonics component are integrated together to build complex circuits. This is the demonstration of the fully potentiality of silicon photonics. It contains a number of chapters written by engineers and scientists of the main companies, research centers and universities active in the field. It can be of use for all those persons interested to know the potentialities and the recent applications of silicon photonics both in microelectronics, telecommunication and consumer electronics market.*

## Haynes Manual on Welding

## Step-By-Step Illustrated Procedures and Practical Projects

*Provides an overall introduction to the welding process, illustrating most of the common equipment and work techniques for both the home and shop welding.*

## Live Cell Imaging

## A Laboratory Manual

**CSHL Press** *Recent advances in imaging technology reveal, in real time and great detail, critical changes in living cells and organisms. This manual is a compendium of emerging techniques, organized into two parts: specific methods such as fluorescent labeling, and delivery and detection of labeled molecules in cells; and experimental approaches ranging from the detection of single molecules to the study of dynamic processes in organelles, organs, and whole animals. Although presented primarily as a laboratory manual, the book includes introductory and background material and could be used as a textbook in advanced courses. It also includes a DVD containing movies of living cells in action, created by investigators using the imaging techniques discussed in the book. The editors, David Spector and Robert Goldman, whose previous book was *Cells: A Laboratory Manual*, are highly respected investigators who have taught microscopy courses at Cold Spring Harbor Laboratory, the Marine Biology Laboratory at Woods Hole, and Northwestern University.*

## NEHRP Recommended Provisions (National Earthquake Hazards Reduction Program) for Seismic Regulations for New Buildings and Other Structures: Commentary

## The War in the Air, 1914-1994

*This book contains the proceedings of a conference held by the Royal Australian Air Force (RAAF) in Canberra in 1994. Since its publication by the RAAF's Air Power Studies Centre in that year, the book has become a widely used reference at universities, military*

academies, and other educational institutions around the world. This American edition is a somewhat shortened version with minor editorial changes. The contributors discuss the evolution of airpower from World War I to the near future. Essay subjects include World War I; doctrinal development in the interwar period; strategic bombing and support of surface forces in World War II; and airpower in the Korean War, Vietnam War, Arab-Israeli Wars, Falklands War, and Persian Gulf War; plus coverage of airpower in such peripheral conflicts as Operation El Dorado Canyon, the Malayan Emergency, and the Israeli raid on the Osirak nuclear reactor.

## Rainbow of Computer Science

## Essays Dedicated to Hermann Maurer on the Occasion of His 70th Birthday

**Springer Science & Business Media** This volume is dedicated to Hermann Maurer on his 70th birthday. Topics include Automata, Formal Languages and Computability to various aspects of the Practice of Computer Science, as well as from Algorithmics to Learning.

## Diesel Engine Reference Book

**Butterworth-Heinemann Limited** The Diesel Engine Reference Book, Second Edition, is a comprehensive work covering the design and application of diesel engines of all sizes. The first edition was published in 1984 and since that time the diesel engine has made significant advances in application areas from passenger cars and light trucks through to large marine vessels. The Diesel Engine Reference Book systematically covers all aspects of diesel engineering, from thermodynamics theory and modelling to condition monitoring of engines in service. It ranges through subjects of long-term use and application to engine designers, developers and users of the most ubiquitous mechanical power source in the world. The latest edition leaves few of the original chapters untouched. The technical changes of the past 20 years have been enormous and this is reflected in the book. The essentials however, remain the same and the clarity of the original remains. Contributors to this well-respected work include some of the most prominent and experienced engineers from the UK, Europe and the USA. Most types of diesel engines from most applications are represented, from the smallest air-cooled engines, through passenger car and trucks, to marine engines. The approach to the subject is essentially practical, and even in the most complex technological language remains straightforward, with mathematics used only where necessary and then in a clear fashion. The approach to the topics varies to suit the needs of different readers. Some areas are covered in both an overview and also in some detail. Many drawings, graphs and photographs illustrate the 30 chapters and a large easy to use index provides convenient access to any information the readers requires.

## King of Battle

## A Branch History of the U.S. Army's Field Artillery

## The Hippocampus Book

**Oxford University Press** The hippocampus is one of a group of remarkable structures embedded within the brains medial temporal lobe. Long known to be important for memory, it has been a prime focus of neuroscience research for many years. This volume offers an account of what the hippocampus does, and what happens when things go wrong.--[Source inconnue].

## Vacuum Electronics

## Components and Devices

**Springer Science & Business Media** Nineteen experts from the electronics industry, research institutes and universities have joined forces to prepare this book. It does nothing less than provide a complete overview of the electrophysical fundamentals, the present state of the art and applications, as well as the future prospects of microwave tubes and systems. The book does the same for optoelectronics vacuum devices, electron and ion beam devices, light and X-ray emitters, particle accelerators and vacuum interrupters.

## Molecular Biomethods Handbook

**Springer Science & Business Media** Recent advances in the biosciences have led to a range of powerful new technologies, particularly nucleic acid, protein and cell-based methodologies. The most recent insights have come to affect how scientists investigate and define cellular processes at the molecular level. This book expands upon the techniques included in the first edition, providing theory, outlines of practical procedures, and applications for a range of techniques. Written by a well-established panel of research scientists, the book provides an up-to-date collection of methods used regularly in the authors' own research programs.



# E-business and E-commerce Management Strategy, Implementation and Practice

**Pearson Education** *Aimed at students, this work covers various aspects of e-business - focusing on sales and marketing, as well as detailing procurement, supply chains, and the legal and security considerations. It contains a range of features to help you learn effectively including margin definitions, international case studies, activities and web links.*