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## **Principles and Applications of Electrical Engineering** - Giorgio Rizzoni 2003-07

The fourth edition of "Principles and Applications of Electrical Engineering" provides comprehensive coverage of the principles of electrical, electronic, and electromechanical engineering to non-electrical engineering majors. Building on the success of previous editions, this text focuses on relevant and practical applications that will appeal to all engineering students.

## **Introduction to Nanoscience** - Gabor L. Hornyak 2008-05-15

Tomorrow's nanoscientist will have a truly interdisciplinary and nano-centric education, rather than, for example, a degree in chemistry with a specialization in nanoscience. For this to happen, the field needs a truly focused and dedicated textbook. This full-color masterwork is such a textbook. It introduces the nanoscale along with the societal impacts of nanoscience, then presents an overview of characterization and fabrication methods. The authors systematically discuss the chemistry, physics, and biology aspects of nanoscience, providing a complete picture of the challenges, opportunities, and inspirations posed by each facet before giving a brief glimpse at nanoscience in action: nanotechnology. This book is written to provide a companion volume to Fundamentals of Nanotechnology. The two companion volumes are also available bound together in the single volume, Introduction to Nanoscience and Nanotechnology Qualifying instructors who purchase either of these volumes (or the combined set) are given online access to a wealth of instructional materials. These include detailed lecture notes, review summaries, slides, exercises, and more. The authors provide enough material for both one- and two-semester courses.

## **Substrate Noise** - Edoardo Charbon 2007-05-08

In the past decade, substrate noise has had a constant and significant impact on the design of analog and mixed-signal integrated circuits. Only recently, with advances in chip miniaturization and innovative circuit design, has substrate noise begun to plague fully digital circuits as well. To combat the effects of substrate noise, heavily over-designed structures are generally adopted, thus seriously limiting the advantages of innovative technologies. Substrate Noise: Analysis and Optimization for IC Design addresses the main problems posed by substrate noise from both an IC and a CAD designer perspective. The effects of substrate noise on performance in digital, analog, and mixed-signal circuits are presented, along with the mechanisms underlying noise generation, injection, and transport. Popular solutions to the substrate noise problem and the trade-offs often debated by designers are extensively discussed. Non-traditional approaches as well as semi-automated techniques to combat substrate noise are also addressed. Substrate Noise: Analysis and Optimization for IC Design will be of interest to researchers and professionals interested in signal integrity, as well as to mixed signal and RF designers.

## **Permanent Magnet Motor Technology** - Jacek F. Gieras 2009-08-25

The importance of permanent magnet (PM) motor technology and its impact on electromechanical drives has grown exponentially since the publication of the bestselling second edition. The PM brushless motor market has grown considerably faster than the overall motion control market. This rapid growth makes it essential for electrical and electromechanical engineers and students to stay up-to-date on developments in modern electrical motors and drives, including their control, simulation, and CAD. Reflecting innovations in the development of PM motors for electromechanical drives, Permanent Magnet Motor Technology: Design and Applications, Third Edition demonstrates the construction of PM motor drives and supplies ready-to-

implement solutions to common roadblocks along the way. This edition supplies fundamental equations and calculations for determining and evaluating system performance, efficiency, reliability, and cost. It explores modern computer-aided design of PM motors, including the finite element approach, and explains how to select PM motors to meet the specific requirements of electrical drives. The numerous examples, models, and diagrams provided in each chapter facilitate a lucid understanding of motor operations and characteristics. This 3rd edition of a bestselling reference has been thoroughly revised to include: Chapters on high speed motors and micromotors Advances in permanent magnet motor technology Additional numerical examples and illustrations An increased effort to bridge the gap between theory and industrial applications Modified research results The growing global trend toward energy conservation makes it quite possible that the era of the PM brushless motor drive is just around the corner. This reference book will give engineers, researchers, and graduate-level students the comprehensive understanding required to develop the breakthroughs that will push this exciting technology to the forefront.

## **City of Dredd** - John Caliber 2011-06-01

CITY OF DREDD is an unofficial guide to all the official Mega-City One locations to have ever featured in the vast JUDGE DREDD mythology and will overload the 'thrill-receptors' of even the most hard-core 'Dreddhead'! In the year 2133AD, in the tumultuous decades after the GREAT ATOMIC WAR, the Earth's nations have been left devastated, falling into living nightmares where only the most brutal and phantasmagoric survive. The old world governments, fearful and corrupted, have been replaced by the JUDGES, an elite organisation part law-enforcer, part army, who rule with an iron fist. The Judges are more dangerous than the toughest criminal, alien invader or rampaging mutant horde, because only they have the LAW on their side! Among their number, one man with a resolve tougher than rockcrete has through the years of slaughter exemplified the very best and the worst that Mankind can offer. He is the ultimate law enforcer, the living legend that is JUDGE DREDD!

## **Supply Chain Metrics that Matter** - Lora M. Cecere 2014-12-08

How to Conquer the Effective Frontier and Drive Improved Value in Global Operations Growth has slowed. Volatility has increased and the world is more global. Brands are defined by innovation and services. Supplychain excellence matters more than ever. It makes a difference incorporate performance. One cannot snap their fingers and deliver supply chain success. It happens over the course of many years. It is measured in inches not miles. In this book, the author evaluates the progress of over a hundred companies over the period of 2006-2013. Success drives value. The effective supply chain makes a difference in winning a war, saving a patient, and driving commerce; but it also makes a difference in a community having clean air, potable water, and a standard of living. Mistakes are hard to overcome. Supply Chain Metrics that Matter tells this story. The book links corporate financials to supply chain maturity. In the book, the author analyzes which metrics matter. The author Lora M. Cecere is a supply chain researcher as well as an authority in supply chain technology. She helps companies gain first mover advantage. In the book, Cecere provides concrete, actionable steps to align and balance the supply chain to drive value. The book explores the crossover between supply chain efficiency and financial growth with topics such as: Outlining the metrics that matter, the metrics that don't Progress in industry sub-segment in improving inventory, cash, productivity and margin The management techniques that improve performance Sharing insights on

how metrics change as the supply chain matures. The roadmap to improve performance. Today, supply chains are global and dynamic. They are rapidly evolving. Companies that constantly seek out new solutions and opportunities for improvement drive differentiation. In a market where growth is stalled and many companies are stuck in driving supply chain performance, this book provides a clear, concise framework for a more modern, effective supply chain.

*Advanced Structural Materials* - Winston O. Soboyejo 2006-12-21

A snapshot of the central ideas used to control fracture properties of engineered structural metallic materials, *Advanced Structural Materials: Properties, Design Optimization, and Applications* illustrates the critical role that advanced structural metallic materials play in aerospace, biomedical, automotive, sporting goods, and other industries in the twenty-first century. The book presents an overview of the structure, properties, and applications of these materials, including the basic ideas behind their design. It contains examples and accessible language, elucidating the basic concepts that guide the development of new alloys and composite materials. With in-depth reviews from leading contributors, the text develops an understanding of the breadth and depth of advances in the field. It begins with a broad introduction to advanced structural materials, then examines materials at the frontiers of emerging applications such as biomaterials, MEMS, amorphous materials, and nanotechnology. The chapter authors are experts in their own right and they assume no prior knowledge of a given material system, delineating the fundamental concepts and applications of advanced structural materials. The rich array of carefully selected topics provides useful insights into the structure, properties, and applications of advanced structural materials.

**Veterinary Dental Techniques for the Small Animal Practitioner** - Steven E. Holmstrom 2004-04-14

This is a Pageburst digital textbook; the product description may vary from the print textbook. The third edition of *Veterinary Dental Techniques* continues to serve as an easy-to-use, practical guide to dental techniques and materials for the small animal practitioner. Covers a wide range of topics including examination and charting, routine and advanced periodontal care, endodontic treatment, orthodontics, dental anesthesia, and ergonomics. Presents a complete and practical approach to dental examination and charting, routine and advanced periodontal care, endodontic treatment, restorative dentistry, orthodontics, fracture fixation, anesthesia and analgesia. Features step-by-step instructions with clear illustrations for successfully planning and treating a wide spectrum of dental procedures. All chapters have been completely revised and updated with the most current information. Includes helpful home-care and post-operative instructions for clients. Consistently formatted chapters include general comments, indications, contraindications, and advantages and disadvantages for all techniques and dental materials. Offers guidelines for starting or expanding a dental department for your practice. Contains an in-depth discussion of the wide range of equipment and instruments that will allow you to provide the highest standard of dental care for your patients. Provides recommendations for the care and maintenance of your dental operatory. Includes a completely updated appendix of manufacturers and sources of dental materials. New chapter on maxillofacial fractures. New chapter on regional and local anesthesia. Completely updated list of manufacturers and sources of dental materials. Expanded coverage of general health safety and ergonomics in the veterinary dental workplace.

*The NRCA Waterproofing Manual* - 2011-01-01

**Case Studies in Finance** - Robert F. Bruner 1994

*Computer and Computing Technologies in Agriculture II, Vol. 2* - Dongfang Li 2010-02-03

The papers in this volume comprise the refereed proceedings of the Second IFIP International Conference on Computer and Computing Technologies in Agriculture (CCTA2008), in Beijing, China, 2008. The conference on the Second IFIP International Conference on Computer and Computing Technologies in Agriculture (CCTA 2008) is cooperatively sponsored and organized by the China Agricultural University (CAU), the National Engineering Research Center for Information Technology in Agriculture (NERCITA), the Chinese Society of Agricultural Engineering (CSAE), International Federation for Information Processing (IFIP), Beijing Society for Information Technology in Agriculture, China and Beijing Research Center for Agro-products Test and Farmland Inspection, China. The related departments of China's central

government bodies like: Ministry of Science and Technology, Ministry of Industry and Information Technology, Ministry of Education and the Beijing Municipal Natural Science Foundation, Beijing Academy of Agricultural and Forestry Sciences, etc. have greatly contributed and supported to this event. The conference is as good a platform to bring together scientists and researchers, agronomists and information engineers, extension servers and entrepreneurs from a range of disciplines concerned with impact of Information technology for sustainable agriculture and rural development. The representatives of all the supporting organizations, a group of invited speakers, experts and researchers from more than 15 countries, such as: the Netherlands, Spain, Portugal, Mexico, Germany, Greece, Australia, Estonia, Japan, Korea, India, Iran, Nigeria, Brazil, China, etc.

**Differential Forms and Applications** - Manfredo P. Do Carmo 2012-12-06

An application of differential forms for the study of some local and global aspects of the differential geometry of surfaces. Differential forms are introduced in a simple way that will make them attractive to "users" of mathematics. A brief and elementary introduction to differentiable manifolds is given so that the main theorem, namely Stokes' theorem, can be presented in its natural setting. The applications consist in developing the method of moving frames expounded by E. Cartan to study the local differential geometry of immersed surfaces in  $R^3$  as well as the intrinsic geometry of surfaces. This is then collated in the last chapter to present Chern's proof of the Gauss-Bonnet theorem for compact surfaces.

**Advanced Gynecologic Endoscopy** - Atef Darwish 2011-08-23

The main purpose of this book is to address some important issues related to gynecologic laparoscopy. Since the early breakthroughs by its pioneers, laparoscopic gynecologic surgery has gained popularity due to developments in illumination and instrumentation that led to the emergence of laparoscopy in the late 1980's as a credible diagnostic as well as therapeutic intervention. This book is unique in that it will review common, useful information about certain laparoscopic procedures, including technique and instruments, and then discuss common difficulties faced during each operation. We also discuss the uncommon and occasionally even anecdotal cases and the safest ways to deal with them. We are honored to have had a group of world experts in laparoscopic gynecologic surgery valuably contribute to our book.

**Defects In Functional Materials** - Chi-chung Francis Ling 2020-08-21

The research of functional materials has attracted extensive attention in recent years, and its advancement nitrifies the developments of modern sciences and technologies like green sciences and energy, aerospace, medical and health, telecommunications, and information technology. The present book aims to summarize the research activities carried out in recent years devoting to the understanding of the physics and chemistry of how the defects play a role in the electrical, optical and magnetic properties and the applications of the different functional materials in the fields of magnetism, optoelectronic, and photovoltaic etc.

*Dialyses* - Roman Jakobson 2020-05-18

*Principles of Operations Management* - Jay Heizer 2011-07-14

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**E. coli in Motion** - Howard C. Berg 2008-01-11

*Escherichia coli*, commonly referred to as *E. coli*, has been the organism of choice for molecular genetics for decades. Its machinery and mobile behavior is one of the most fascinating topics for cell scientists. Scientists and engineers, not trained in microbiology, and who would like to learn more about living

machines, can see it as a unique example. This cross-disciplinary monograph covers more than thirty years of research and is accessible to graduate students and scientists alike.

**Societal Impact of Spaceflight** - Steven J. Dick 2007

**Antarctic Journal of the United States** - 1994

**Fundamentals of Nanotechnology** - Gabor L. Hornyak 2018-12-14

WINNER 2009 CHOICE AWARD OUTSTANDING ACADEMIC TITLE! Nanotechnology is no longer a subdiscipline of chemistry, engineering, or any other field. It represents the convergence of many fields, and therefore demands a new paradigm for teaching. This textbook is for the next generation of nanotechnologists. It surveys the field's broad landscape, exploring the physical basics such as nanorheology, nanofluidics, and nanomechanics as well as industrial concerns such as manufacturing, reliability, and safety. The authors then explore the vast range of nanomaterials and systematically outline devices and applications in various industrial sectors. This color text is an ideal companion to Introduction to Nanoscience by the same group of esteemed authors. Both titles are also available as the single volume Introduction to Nanoscience and Nanotechnology Qualifying instructors who purchase either of these volumes (or the combined set) are given online access to a wealth of instructional materials. These include detailed lecture notes, review summaries, slides, exercises, and more. The authors provide enough material for both one- and two-semester courses.

**Time Series** - Robert Shumway 2019-05-17

The goals of this text are to develop the skills and an appreciation for the richness and versatility of modern time series analysis as a tool for analyzing dependent data. A useful feature of the presentation is the inclusion of nontrivial data sets illustrating the richness of potential applications to problems in the biological, physical, and social sciences as well as medicine. The text presents a balanced and comprehensive treatment of both time and frequency domain methods with an emphasis on data analysis. Numerous examples using data illustrate solutions to problems such as discovering natural and anthropogenic climate change, evaluating pain perception experiments using functional magnetic resonance imaging, and the analysis of economic and financial problems. The text can be used for a one semester/quarter introductory time series course where the prerequisites are an understanding of linear regression, basic calculus-based probability skills, and math skills at the high school level. All of the numerical examples use the R statistical package without assuming that the reader has previously used the software. Robert H. Shumway is Professor Emeritus of Statistics, University of California, Davis. He is a Fellow of the American Statistical Association and has won the American Statistical Association Award for Outstanding Statistical Application. He is the author of numerous texts and served on editorial boards such as the Journal of Forecasting and the Journal of the American Statistical Association. David S. Stoffer is Professor of Statistics, University of Pittsburgh. He is a Fellow of the American Statistical Association and has won the American Statistical Association Award for Outstanding Statistical Application. He is currently on the editorial boards of the Journal of Forecasting, the Annals of Statistical Mathematics, and the Journal of Time Series Analysis. He served as a Program Director in the Division of Mathematical Sciences at the National Science Foundation and as an Associate Editor for the Journal of the American Statistical Association and the Journal of Business & Economic Statistics.

**The Brains of Men and Machines** - Ernest W. Kent 1981

Surveys current knowledge of how the human brain functions, notes parallels with the development of computers, and predicts how new brain research will influence future computer designs

**Mac OS X and iOS Internals** - Jonathan Levin 2012-11-05

An in-depth look into Mac OS X and iOS kernels Powering Macs, iPhones, iPads and more, OS X and iOS are becoming ubiquitous. When it comes to documentation, however, much of them are shrouded in mystery. Cocoa and Carbon, the application frameworks, are neatly described, but system programmers find the rest lacking. This indispensable guide illuminates the darkest corners of those systems, starting with an architectural overview, then drilling all the way to the core. Provides you with a top down view of OS X and iOS Walks you through the phases of system startup—both Mac (EFI) and mobile (iBoot) Explains

how processes, threads, virtual memory, and filesystems are maintained Covers the security architecture Reviews the internal Apis used by the system—BSD and Mach Dissects the kernel, XNU, into its sub components: Mach, the BSD Layer, and I/o kit, and explains each in detail Explains the inner workings of device drivers From architecture to implementation, this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS.

**Continuum Mechanics** - P. Chadwick 2012-08-08

DIVComprehensive treatment offers 115 solved problems and exercises to promote understanding of vector and tensor theory, basic kinematics, balance laws, field equations, jump conditions, and constitutive equations. /div

**The Information Age** - David Stephen Alberts 2004

The Information Age: An Anthology on Its Impacts and Consequences was originally prepared by The Center for Advanced Concepts, Technologies, and Information Strategies of the Institute for National Strategic Studies, National Defense University. The original four volumes have been combined into one volume for this printing. They are: Part One: The Information and Communication Revolution Part Two: Business, Commerce, and Services Part Three: Government and the Military Part Four: International Affairs How to Win at the Sport of Business - Mark Cuban 2011-11-20

Mark Cuban shares his wealth of experience and business savvy in his first published book, HOW TO WIN AT THE SPORT OF BUSINESS. "It's New Year's resolution time, and Mark Cuban's new book offers the rationale for a good one." —BUSINESS INSIDER Using the greatest material from his popular Blog Maverick, Cuban has collected and updated his postings on business and life to provide a catalog of insider knowledge on what it takes to become a thriving entrepreneur. He tells his own rags-to-riches story of how he went from selling powdered milk and sleeping on friends' couches to owning his own company and becoming a multi-billion dollar success story. His unconventional yet highly effective ideas on how to build a successful business offer entrepreneurs at any stage of their careers a huge edge over their competitors. "In short, [HOW TO WIN AT THE SPORT OF BUSINESS] exceeded...expectations. Short chapters...got right to the point and were not filled with 'stuffing'." —HUFFINGTON POST

*Customer Centricity* Peter Fader 2012

A powerful call to action, Customer Centricity upends some of our most fundamental beliefs about customer service, customer relationship management, and customer lifetime value NOT ALL CUSTOMERS ARE CREATED EQUAL Despite what the tired old adage says, the customer is not always right. Not all customers deserve your best efforts: In the world of customer centricity, there are good customers...and then there is pretty much everybody else. In Customer Centricity, Wharton professor Peter Fader, coauthor of the follow-up book The Customer Centricity Playbook, helps businesses radically rethink how they relate to customers. He provides insights to help you understand: Why customer centricity is the new model for success and product centricity must be ushered out How the ideas of brand equity and customer equity help us understand what kinds of companies naturally lend themselves to the customer-centric model and which ones don't Why the traditional models for determining the value of individual customers are flawed How executives can use customer lifetime value (CLV) and other customer-centric data to make smarter decisions about their companies How the well-intended idea of customer relationship management (CRM) lost its way-and how your company can properly put CRM to use Customer Centricity will help you realign your performance metrics, product development, customer relationship management and organization in order to make sure you focus directly on the needs of your most valuable customers and increase profits for the long term. ALSO AVAILABLE: Once Fader convinces you of the value of customer centricity in this book, The Customer Centricity Playbook, with Sarah Toms, will show you where to get started. "Reveals how to increase profits from your best customers, find more like them, and avoid over-investing in the rest....Decidedly accessible and absolutely necessary." -Jim Sterne, Founding President and Chairman, Digital Analytics Association "Perfect read...It's short (60-90 minutes), clear, and the best summary I've read of why companies should rethink their approach to customers." -Andrew McFarland, SVP, Chief Customer Officer, Black Box "Knowing what your customers are worth is the secret to focusing your time and money where it makes the most difference. You can't be all things to all people, so you need to learn to find out who really matters to your success. Fader makes it clear with great ideas and a readable style." -

Andy Sernovitz, author, Word of Mouth Marketing THE WHARTON EXECUTIVE ESSENTIALS SERIES The Wharton Executive Essentials series from Wharton Digital Press brings the ideas of the Wharton School's thought leaders to you wherever you are. Inspired by Wharton's Executive Education program, each book is authored by globally renowned faculty and filled with real-life business examples and actionable advice. Wharton Executive Essentials guides offer a quick-reading, penetrating, and comprehensive summary of the knowledge leaders need to excel in today's competitive business environment and capture tomorrow's opportunities.

**Implantable Neural Prostheses 2** - David Zhou 2012-02-25

Significant progress has been made in the development of neural prostheses for restoration of human functions and improvement of the quality of life. Biomedical engineers and neuroscientists around the world are working to improve the design and performance of existing devices and to develop novel devices for artificial vision, artificial limbs, and brain-machine interfaces. This book, Implantable Neural Prostheses 2: Techniques and Engineering Approaches, is part two of a two-volume sequence that describes state-of-the-art advances in techniques associated with implantable neural prosthetic devices. The techniques covered include biocompatibility and biostability, hermetic packaging, electrochemical techniques for neural stimulation applications, novel electrode materials and testing, thin-film flexible microelectrode arrays, in situ characterization of microelectrode arrays, chip-size thin-film device encapsulation, microchip-embedded capacitors and microelectronics for recording, stimulation, and wireless telemetry. The design process in the development of medical devices is also discussed. Advances in biomedical engineering, microfabrication technology, and neuroscience have led to improved medical-device designs and novel functions. However, many challenges remain. This book focuses on the engineering approaches, R&D advances, and technical challenges of medical implants from an engineering perspective. We are grateful to leading researchers from academic institutes, national laboratories, as well as design engineers and professionals from the medical device industry who have contributed to the book. Part one of this series covers designs of implantable neural prosthetic devices and their clinical applications.

**Microsurgery in Endodontics** - Syngcuk Kim 2017-08-07

Microsurgery in Endodontics provides the definitive reference to endodontic microsurgery, with instructive photographs and illustrations. Provides a definitive reference work on endodontic microsurgery Includes contributions from pioneers and innovators in the field of microsurgical endodontics Describes techniques for a wide range of microsurgical procedures Includes more than 600 instructive illustrations and photographs

**Longman Student Grammar of Spoken and Written English** - Douglas Biber 2010

This grammar reference is written for the advanced student. It combines explanations of English grammar with information on how, when and why we use different structures. It shows the differences between spoken and written grammar and includes frequency information on the most common forms.

**Semantic Information Processing** - Marvin Minsky 2003-01-01

**Federal Taxation 2014** - Pratt & Kulsrud 2013-06-20

**2018 IEEE International Ultrasonics Symposium (IUS)** - IEEE Staff 2018-10-22

Medical and industrial ultrasonics

**Global Innovation Management** J. Christopher Westland 2017-09-16

This is an exciting new edition of a core textbook that explores innovation management from a global perspective. Innovation management is increasingly significant, both as an academic discipline and as an integral part of the way businesses seek to change and grow. However the key factors behind successful innovation and the process by which innovation is turned into profit in the global arena remain largely undefined. The new edition provides a unique answer to these questions and offers a step-by-step guide to innovation strategy development, taking into account the global context in which businesses today operate. Written by a highly experienced instructor, this is an ideal companion for undergraduate students of innovation as well as postgraduate and MBA students taking modules with an innovation component. New to this Edition: - Completely rewritten and restructured to explore in more depth how innovative ideas are

identified and strategized in an increasingly globalized world - Fully updated and extended case studies on world-leading companies - Increased attention to commercialized innovation, including factors such as intellectual property laws, technology acceleration and the competition for venture capital and finance - Coverage of new topics such as open innovation and service innovation - Expanded coverage of the tools and methods needed to understand financial gain and risk

**Soft Computing and Intelligent Systems Design** - Fakhreddine Karray 2004

If you are studying soft computing, intelligent machines or intelligent control then this book will give you the theory you need together with a vast array of examples and practical material, providing you with a thorough grounding in this exciting field. Practising professionals will find the introductory material, application oriented techniques and case studies especially helpful. Theory meets practice through numerous examples and solved real world problems. Comprehensive case studies demonstrate a wide range of applications across science and engineering. Extensive coverage of intelligent systems design including intelligent control and time series prediction.

**Classical Network Theory** - Vitold Belevitch 1968

**Handbook on Knowledge Management 1** - Clyde Holsapple 2013-04-17

As the most comprehensive reference work dealing with knowledge management (KM), this work, consisting of 2 volumes, is essential for the library of every KM practitioner, researcher, and educator. Written by an international array of KM luminaries, its approx. 60 chapters approach knowledge management from a wide variety of perspectives ranging from classic foundations to cutting-edge thought, informative to provocative, theoretical to practical, historical to futuristic, human to technological, and operational to strategic. Novices and experts alike will refer to the authoritative and stimulating content again and again for years to come.

**Elementary Linear Algebra** - Lawrence E. Spence 2013-07-29

For a sophomore-level course in Linear Algebra. Based on the recommendations of the Linear Algebra Curriculum Study Group, this introduction to linear algebra offers a matrix-oriented approach with more emphasis on problem solving and applications. Throughout the text, use of technology is encouraged. The focus is on matrix arithmetic, systems of linear equations, properties of Euclidean n-space, eigenvalues and eigenvectors, and orthogonality. Although matrix-oriented, the text provides a solid coverage of vector spaces.

**To Err Is Human** - Institute of Medicine 2000-03-01

Experts estimate that as many as 98,000 people die in any given year from medical errors that occur in hospitals. That's more than die from motor vehicle accidents, breast cancer, or AIDS—three causes that receive far more public attention. Indeed, more people die annually from medication errors than from workplace injuries. Add the financial cost to the human tragedy, and medical error easily rises to the top ranks of urgent, widespread public problems. To Err Is Human breaks the silence that has surrounded medical errors and their consequences—but not by pointing fingers at caring health care professionals who make honest mistakes. After all, to err is human. Instead, this book sets forth a national agenda—with state and local implications—for reducing medical errors and improving patient safety through the design of a safer health system. This volume reveals the often startling statistics of medical error and the disparity between the incidence of error and public perception of it, given many patients' expectations that the medical profession always performs perfectly. A careful examination is made of how the surrounding forces of legislation, regulation, and market activity influence the quality of care provided by health care organizations and then looks at their handling of medical mistakes. Using a detailed case study, the book reviews the current understanding of why these mistakes happen. A key theme is that legitimate liability concerns discourage reporting of errors—which begs the question, "How can we learn from our mistakes?" Balancing regulatory versus market-based initiatives and public versus private efforts, the Institute of Medicine presents wide-ranging recommendations for improving patient safety, in the areas of leadership, improved data collection and analysis, and development of effective systems at the level of direct patient care. To Err Is Human asserts that the problem is not bad people in health care—it is that good people are working in bad systems that need to be made safer. Comprehensive and straightforward,

this book offers a clear prescription for raising the level of patient safety in American health care. It also explains how patients themselves can influence the quality of care that they receive once they check into the hospital. This book will be vitally important to federal, state, and local health policy makers and regulators, health professional licensing officials, hospital administrators, medical educators and students, health caregivers, health journalists, patient advocates"as well as patients themselves. First in a series of publications from the Quality of Health Care in America, a project initiated by the Institute of Medicine

**Nanotechnology Research Directions: IWGN Workshop Report** - R.S. Williams 2013-03-09

energy production, environmental management, transportation, communication, computation, and education. As the twenty-first century unfolds, nanotechnology's impact on the health, wealth, and security of the world's people is expected to be at least as significant as the combined influences in this century of antibiotics, the integrated circuit, and human-made polymers. Dr. Neal Lane, Advisor to the President for

Science and Technology and former National Science Foundation (NSF) director, stated at a Congressional hearing in April 1998, "If I were asked for an area of science and engineering that will most likely produce the breakthroughs of tomorrow, I would point to nanoscale science and engineering. " Recognizing this potential, the White House Office of Science and Technology Policy (OSTP) and the Office of Management and Budget (OMB) have issued a joint memorandum to Federal agency heads that identifies nanotechnology as a research priority area for Federal investment in fiscal year 2001. This report charts "Nanotechnology Research Directions," as developed by the Interagency Working Group on Nano Science, Engineering, and Technology (IWGN) of the National Science and Technology Council (NSTC). The report incorporates the views of leading experts from government, academia, and the private sector. It reflects the consensus reached at an IWGN-sponsored workshop held on January 27-29, 1999, and detailed in contributions submitted thereafter by members of the V. S. science and engineering community. (See Appendix A for a list of contributors.