Design Of Transmission Elements By Tj Prabhu

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Simulation of Communication Systems - Michel C. Jeruchim 2006-04-11
Since the first edition of this book was published seven years ago, the field of modeling and simulation of communication systems has grown and matured in many ways, and the use of simulation as a day-to-day tool is now even more common practice. With the current interest in digital mobile communications, a primary area of application of modeling and simulation is now in wireless systems of a different flavor from the `traditional' ones.

This second edition represents a substantial revision of the first, partly to accommodate the new applications that have arisen. New chapters include material on modeling and simulation of nonlinear systems, with a complementary section on related measurement techniques, channel modeling and three new case studies; a consolidated set of problems is provided at the end of the book.

Gas Tables - S. M. Yahya 2012

* Properties of the atmosphere are given * Tables for isothermal flow and oblique shock are included * Pressure drop in gas pipe lines is also tabulated * Gives pumping power for fans, blowers and compressors * These gas tables can be used in Mechanical Engineering, Aerospace Engineering, Chemical Engineering and Gas Engineering

Handbook of Nondestructive Evaluation - Chuck Hellier 2001-04-04

Perform Accurate, Cost-Effective Product Testing Nondestructive testing has become the leading product testing standard, and Handbook of Non-Destructive Evaluations by Chuck Hellier is the unparalleled one-stop, A-to-Z guide to this subject. Covering the background, benefits, limitations, and applications of each, this decision-simplifying resource looks at both the major and emerging nondestructive evaluation methods, including: visual testing...penetrant testing...magnetic particle testing...radiographic testing...Ultrasonic testing... eddy current testing...thermal

infrared testing...and acoustic emission testing. In clear, understandable terms, the Handbook shows you how to interpret results and formulate the right decisions based on them, making it a welcome resource for engineers, metallurgists, quality control specialists, and anyone else involved in product design, manufacture, or maintenance. The Handbook is also the ideal prep tool if you’re seeking certification in AWS/CSWIP, ASNT Level III, ACCP, and IRRSP programs. If you’re looking for a one-stop answer to all your nondestructive testing questions, your search ends here.

Hydrology in Practice - Elizabeth M. Shaw 2017-12-21

Hydrology in Practice is an excellent and very successful introductory text for engineering hydrology students who go on to be practitioners in consultancies, the Environment Agency, and elsewhere. This fourth edition of Hydrology in Practice, while retaining all that is excellent about its predecessor, by Elizabeth M. Shaw, replaces the material on the Flood Studies Report with an equivalent section on the methods of the Flood Estimation Handbook and its revisions. Other completely revised sections on instrumentation and modelling reflect the many changes that have occurred over recent years. The updated text has taken advantage of the extensive practical experience of the staff of JBA Consulting who use the methods described on a day-to-day basis. Topical case

studies further enhance the text and the way in which students at undergraduate and MSc level can relate to it. The fourth edition will also have a wider appeal outside the UK by including new material on hydrological processes, which also relate to courses in geography and environmental science departments. In this respect the book draws on the expertise of Keith J. Beven and Nick A. Chappell, who have extensive experience of field hydrological studies in a variety of different environments, and have taught undergraduate hydrology courses for many years. Second- and final-year undergraduate (and MSc) students of hydrology in engineering, environmental science, and geography departments across the globe, as well as professionals in environmental protection agencies and consultancies, will find this book invaluable. It is likely to be the course text for every undergraduate/MSc hydrology course in the UK and in many cases overseas too.

Insecticides Design Using Advanced Technologies - Isaac Ishaaya 2007-02-15

Among the highlights of this book are the use of nanotechnology to increase potency of available insecticides, the use of genetic engineering techniques for controlling insect pests, the development of novel insecticides that bind to unique biochemical receptors, the exploration of natural products as a source for environmentally acceptable insecticides, and the use of insect genomics and cell lines

for determining biological and biochemical modes of action of new insecticides.

Geotechnical Engineering - V.N.S. Murthy 2002-10-25

A must have reference for any engineer involved with foundations, piers, and retaining walls, this remarkably comprehensive volume illustrates soil characteristic concepts with examples that detail a wealth of practical considerations, It covers the latest developments in the design of drilled pier foundations and mechanically stabilized earth retaining wall and explores a pioneering approach for predicting the nonlinear behavior of laterally loaded long vertical and batter piles. As complete and authoritative as any volume on the subject, it discusses soil formation, index properties, and classification; soil permeability, seepage, and the effect of water on stress conditions; stresses due to surface loads; soil compressibility and consolidation; and shear strength characteristics of soils. While this book is a valuable teaching text for advanced students, it is one that the practicing engineer will continually be taking off the shelf long after school lets out. Just the quick reference it affords to a huge range of tests and the appendices filled with essential data, makes it an essential addition to an civil engineering library.

Machine Drawing - K. L. Narayana 2009-06-30

About the Book: Written by three distinguished authors with ample

academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

Fundamentals of Massive MIMO - Thomas L. Marzetta 2016-11-17
Written by pioneers of the concept, this is the first complete guide to the physical and engineering principles of Massive MIMO. Assuming only a basic background in communications and statistical signal processing, it will guide readers through key topics in multi-cell systems such as propagation modeling, multiplexing and de-multiplexing, channel estimation, power control, and performance evaluation. The authors' unique capacity-bounding approach will enable readers to carry out effective system performance analyses and develop advanced Massive MIMO techniques and algorithms. Numerous case studies, as well as problem sets and solutions accompanying the book online, will help readers put knowledge into practice and acquire the skill set needed to design and analyze complex wireless communication systems. Whether you are a graduate student, researcher, or industry professional working in the field of wireless communications, this will be an indispensable guide for years to come.

Computer Networks - Larry L. Peterson 2011-03-02
Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from

the real world of network and protocol design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What's Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as

well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus on application layer issues where innovative and exciting research and design is currently the center of attention Free downloadable network simulation software and lab experiments manual available

Childhood Acute Lymphoblastic Leukemia - Ajay Vora 2017-04-21

This book provides a comprehensive and up-to-date review of all aspects of childhood Acute Lymphoblastic Leukemia, from basic biology to supportive care. It offers new insights into the genetic pre-disposition to the condition and discusses how response to early therapy and its basic biology are utilized to develop new prognostic stratification systems and target therapy. Readers will learn about current treatment and outcomes, such as immunotherapy and targeted therapy approaches. Supportive care and management of the condition in resource poor countries are also discussed in detail. This is an indispensable guide for research and laboratory scientists, pediatric hematologists as well as specialist nurses involved in the care of childhood leukemia.

DESIGN OF MACHINE ELEMENTS - KAMLESH PUROHIT 2002-01-01

This thorough and comprehensive textbook

on machine elements presents the concepts, procedures, data, tools, and techniques students need to design safe, efficient and workable mechanical components of machines. Covering both the conventional design methodology and the new tools such as CAD, optimization and FEM, design procedures for the most frequently encountered mechanical elements have been explained in meticulous detail. The text features an abundance of thoroughly worked-out examples, end-of-chapter questions and exercises, and multiple-choice questions, framed to not only enhance students' learning but also hone their design skills. Well-written and eminently readable, the text is admirably suited to the needs of undergraduate students in mechanical, production and industrial engineering disciplines.

Space Vehicle Design - Michael Douglas Griffin 2004

Constructive Programme - Its Meaning and Place - M. K. Gandhi 2021-01-01

This is a thoroughly revised edition of the "Constructive Programme" which I first wrote in 1941. The items included in it have not been arranged in any order, certainly not in the order of their importance. When the reader discovers that a particular subject though important in itself in terms of Independence does not find place in the programme, he should know that the omission is not intentional. He should unhesitatingly add to my list and let me know. My list does not pretend to be exhaustive; it is merely illustrative. The reader

will see several new and important additions.

Advances in Simulation, Product Design and Development - M. S. Shunmugam 2020-11-07

This volume comprises select proceedings of the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The papers in this volume discuss simulations based on techniques such as finite element method (FEM) as well as soft computing based techniques such as artificial neural network (ANN), their optimization and the development and design of mechanical products. This volume will be of interest to researchers, policy makers, and practicing engineers alike.

Basic Mechanical Engineering - Pravin Kumar

Basic Mechanical Engineering covers a wide range of topics and engineering concepts that are required to be learnt as in any undergraduate engineering course. Divided into three parts, this book lays emphasis on explaining the logic and physics of critical problems to develop analytical skills in students.

A Textbook of Machine Design - RS Khurmi | JK Gupta 2005

The present multicolor edition has been throughly revised and brought up-to-date.Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality,and to bridge the gap between theory and practice.this book ahs already been include in the 'suggested reading'for the

A.M.I.E.(India)examinations.

Electromagnetics - John D. Kraus 1992

Manufacturing Science - Ghosh 1990-11-01

Machine Elements - Boris M. Klebanov 2007-09-14 Focusing on how a machine "feels" and behaves while operating, Machine Elements: Life and Design seeks to impart both intellectual and emotional comprehension regarding the "life" of a machine. It presents a detailed description of how machines elements function, seeking to form a sympathetic attitude toward the machine and to ensure its wellbeing through more careful and proper design. The book is divided into three sections for accessibility and ease of comprehension. The first section is devoted to microscopic deformations and displacements both in permanent connections and within the bodies of stressed parts. Topics include relative movements in interference fit connections and bolted joints, visual demonstrations and clarifications of the phenomenon of stress concentration, and increasing the load capacity of parts using prior elasto-plastic deformation and surface plastic deformation. The second part examines machine elements and units. Topics include load capacity calculations of interference fit connections under bending, new considerations about the role of the interference fit in key joints, a detailed examination of bolts loaded by eccentrically applied

tension forces, resistance of cylindrical roller bearings to axial displacement under load, and a new approach to the choice of fits for rolling contact bearings. The third section addresses strength calculations and life prediction of machine parts. It includes information on the phenomena of static strength and fatigue; correlation between calculated and real strength and safety factors; and error migration.

Smart Product-Service Systems - Pai Zheng 2021-06-23

Smart Product-Service Systems draws on innovative practice and academic research to demonstrate the unique benefits of Smart PSS and help facilitate its effective implementation. This comprehensive guide explains how Smart PSS reshapes product-service design in several unique aspects, including a closed-loop product design and redesign manner, value co-creation with integrated human-machine intelligence, and solution design context-awareness. Readers in industry as well as academia will find this to be an invaluable guide to the current body of technical knowledge on Smart Product-Service Systems (Smart PSS), future research trajectories, and experiences of implementation. Rapid development of information and communication technologies, artificial intelligence, and digital technologies have driven today’s industries towards the so-called digital servitization era. As a result, a promising IT-

driven business paradigm, known as Smart Product-Service Systems (Smart PSS) has emerged, where a large amount of low cost, high performance smart, connected products are leveraged, together with their generated on-demand services, as a single solution bundle to meet individual customer needs. Explains what factors a company needs to consider in their transition towards digital servitization and its advantages Describes how this field relates to the sustainability movement, and how Smart PSS can be implemented in a sustainable way Includes detailed case studies from different industries, including DELTA Electronics Inc. Singapore (smart commercialization), COMAC aviation industry (smart manufacturing servitization), and Van High Tech (smart building services)

Queueing Modelling Fundamentals - Professor Chee-Hock Ng 2008-04-30

Queueing analysis is a vital tool used in the evaluation of system performance. Applications of queueing analysis cover a wide spectrum from bank automated teller machines to transportation and communications data networks. Fully revised, this second edition of a popular book contains the significant addition of a new chapter on Flow & Congestion Control and a section on Network Calculus among other new sections that have been added to remaining chapters. An introductory text, Queueing Modelling Fundamentals focuses on queueing modelling techniques and applications of data networks, examining the

underlying principles of isolated queueing systems. This book introduces the complex queueing theory in simple language/proofs to enable the reader to quickly pick up an overview to queueing theory without utilizing the diverse necessary mathematical tools. It incorporates a rich set of worked examples on its applications to communication networks. Features include: Fully revised and updated edition with significant new chapter on Flow and Congestion Control as-well-as a new section on Network Calculus A comprehensive text which highlights both the theoretical models and their applications through a rich set of worked examples, examples of applications to data networks and performance curves Provides an insight into the underlying queuing principles and features step-by-step derivation of queueing results Written by experienced Professors in the field Queueing Modelling Fundamentals is an introductory text for undergraduate or entry-level post-graduate students who are taking courses on network performance analysis as well as those practicing network administrators who want to understand the essentials of network operations. The detailed step-by-step derivation of queueing results also makes it an excellent text for professional engineers.

Applied Mechanics Reviews - 1984

Practical Railway Engineering - Clifford F. Bonnett 2005

This textbook covers the very wide spectrum of all aspects of railway engineering for all engineering disciplines,

in a 'broad brush' way giving a good overall knowledge of what is involved in planning, designing, constructing and maintaining a railway. It covers all types of railway systems including light rail and metro as well as main line. The first edition has proved very popular both with students new to railways and with practicing engineers who need to work in this newly expanding area.In the second edition, the illustrations have been improved and brought up to date, particularly with the introduction of 30 colour pages which include many newly taken photographs. The text has been reviewed for present day accuracy and, where necessary, has been modified or expanded to include reference to recent trends or developments. New topics include automatic train control, level crossings, dot matrix indicators, measures for the mobility impaired, reinforced earth structures, air conditioning, etc. Recent railway experience, both technical and political, has also been reflected in the commentary.

Research Into Design - Amaresh Chakrabarti 2011

Machine Design - U. C. Jindal 2010

Machine Design is a text on the design of machine elements for the engineering undergraduates of mechanical/production/industrial disciplines. The book provides a comprehensive survey of machine elements and their analytical design methods. Besides explaining the fundamentals of the tools and techniques necessary to facilitate design calculations, the

text includes extensive data on various aspects of machine elements, manufacturing considerations and materials. The extensive pedagogical features make the text student friendly and provide pointers for fast recapitulation.

Evaluation of PEPFAR's Contribution (2012-2017) to Rwanda's Human Resources for Health Program - National Academies of Sciences, Engineering, and Medicine 2020-06-22 Since 2004, the U.S. government has supported the global response to HIV/AIDS through the President's Emergency Plan for AIDS Relief (PEPFAR). The Republic of Rwanda, a PEPFAR partner country since the initiative began, has made gains in its HIV response, including increased access to and coverage of antiretroviral therapy and decreased HIV prevalence. However, a persistent shortage in human resources for health (HRH) affects the health of people living with HIV and the entire Rwandan population. Recognizing HRH capabilities as a foundational challenge for the health system and the response to HIV, the Government of Rwanda worked with PEPFAR and other partners to develop a program to strengthen institutional capacity in health professional education and thereby increase the production of high-quality health workers. The Program was fully managed by the Government of Rwanda and was designed to run from 2011 through 2019. PEPFAR initiated funding in 2012. In 2015, PEPFAR adopted a new strategy focused on high-burden geographic areas and key populations, resulting

in a reconfiguration of its HIV portfolio in Rwanda and a decision to cease funding the Program, which was determined no longer core to its programming strategy. The last disbursement for the Program from PEPFAR was in 2017. Evaluation of PEPFAR's Contribution (2012-2017) to Rwanda's Human Resources for Health Program describes PEPFAR-supported HRH activities in Rwanda in relation to programmatic priorities, outputs, and outcomes and examines, to the extent feasible, the impact on HRH and HIV-related outcomes. The HRH Program more than tripled the country's physician specialist workforce and produced major increases in the numbers and qualifications of nurses and midwives. Partnerships between U.S. institutions and the University of Rwanda introduced new programs, upgraded curricula, and improved the quality of teaching and training for health professionals. Growing the number, skills, and competencies of health workers contributed to direct and indirect improvements in the quality of HIV care. Based on the successes and challenges of the HRH program, the report recommends that future investments in health professional education be designed within a more comprehensive approach to human resources for health and institutional capacity building, which would strengthen the health system to meet both HIV-specific and more general health needs. The recommendations offer an aspirational framework to reimagine how partnerships are formed, how investments are made, and how the

effects of those investments are documented.

Machine Component Design - William Orthwein 1999-01-01

This book covers a wide range of topics providing an indepth information on Machine Design Components. It consists of 16 chapters which cover subjects like materials, hydraulics, shaft design, cams, lubrication etc. It also covers materials that is not included in other machine design text. The book includes many realistic design problems and offers solution to them. It displays flow charts and provides formulas, calculus, vector analysis and basic familiarity with numerical methods and computer programming that will enable students to analyse machine design programs.

Basic Mechanical Engineering - Anup Goel 2021-01-01

Mechanical engineering, as its name suggests, deals with the mechanics of operation of mechanical systems. This is the branch of engineering which includes design, manufacturing, analysis and maintenance of mechanical systems. It combines engineering physics and mathematics principles with material science to design, analyse, manufacture and maintain mechanical systems. This book covers the field requires an understanding of core areas including thermodynamics, material science, manufacturing, energy conversion systems, power transmission systems and mechanisms. My hope is that this book, through its careful explanations of concepts, practical

examples and figures bridges the gap between knowledge and proper application of that knowledge.

Inclusive Designing - P. M. Langdon 2014-07-08 'Inclusive Designing' presents the proceedings of the seventh Cambridge Workshop on Universal Access and Assistive Technology (CWUAAT '14). It represents a unique multi-disciplinary workshop for the Inclusive Design Research community where designers, computer scientists, engineers, architects, ergonomists, policymakers and user communities can exchange ideas. The research presented at CWUAAT '14 develops methods, technologies, tools and guidance that support product designers and architects to design for the widest possible population for a given range of capabilities, within a contemporary social and economic context. In the context of developing demographic changes leading to greater numbers of older people and people with disabilities, the general field of Inclusive Design Research strives to relate the capabilities of the population to the design of products. Inclusive populations of older people contain a greater variation in sensory, cognitive and physical user capabilities. These variations may be co-occurring and rapidly changing leading to a demanding design environment. Recent research developments have addressed these issues in the context of: governance and policy; daily living activities; the workplace; the built environment, Interactive Digital TV and Mobile

communications. Increasingly, a need has been identified for a multidisciplinary approach that reconciles the diverse and sometimes conflicting demands of Design for Ageing and Impairment, Usability and Accessibility and Universal Access. CWUAAT provides a platform for such a need. This book is intended for researchers, postgraduates, design practitioners, clinical practitioners, and design teachers.

Microwave Mobile Communications (An IEEE Press Classic Reissue) - William C Jakes 1994-05-16

This is an IEEE classic reissue of the book published by John Wiley & Sons in 1974.This definitive text and reference covers all aspects of microwave mobile systems design. Encompassing ten years of advanced research in the field, it reviews basic microwave theory, explains how cellular systems work and presents useful techniques for effective systems development. Key features include: complete coverage of microwave propagation techniques to design successful cellular systems, extensive chapters covering the broad fundamentals of microwave usage in mobile radio propagation and the functions of mobile radio antennas, comprehensive treatment of modulation methods, interference, noise, layout and control of high-capacity systems, and more! The return of this classic volume should be welcomed by all those seeking an authoritative and complete source of information on this emerging technology.

Basic Mechanical

Engineering - Rajput 2002

The Origin and Evolution of New Businesses - Amar V. Bhide 2003-10-16 What is this mysterious activity we call entrepreneurship? Does success require special traits and skills or just luck? Can large companies follow their example? What role does venture capital play? In a field dominated by anecdote and folklore, this landmark study integrates more than ten years of intensive research and modern theories of business and economics. The result is a comprehensive framework for understanding entrepreneurship that provides new and penetrating insights. Examining hundreds of successful ventures, the author finds that the typical business has humble, improvised origins. Well-planned start-ups, backed by substantial venture capital, are exceptional. Entrepreneurs like Bill Gates and Sam Walton initially pursue small, uncertain opportunities, without much capital, market research, or breakthrough technologies. Coping with ambiguity and surprises, face-to-face selling, and making do with second-tier employees is more important than foresight, deal-making, or recruiting top-notch teams. Transforming improvised start-ups into noteworthy enterprises requires a radical shift, from "opportunistic adaptation" in niche markets to the pursuit of ambitious strategies. This requires traits such as ambition and risk-taking that are initially unimportant.

Mature corporations have to pursue entrepreneurial activity in a much more disciplined way. Companies like Intel and Merck focus their resources on large-scale initiatives that scrappy entrepreneurs cannot undertake. Their success requires carefully chosen bets, meticulous planning, and the smooth coordination of many employees rather than the talents of a driven few. This clearly and concisely written book is essential for anyone who wants to start a business, for the entrepreneur or executive who wants to grow a company, and for the scholar who wants to understand this crucial economic activity.

Service Systems Engineering and Management - A. Ravi Ravindran 2018-04-18 Recipient of the 2019 IISE Institute of Industrial and Systems Engineers Joint Publishers Book-of-the-Year Award This is a comprehensive textbook on service systems engineering and management. It emphasizes the use of engineering principles to the design and operation of service enterprises. Service systems engineering relies on mathematical models and methods to solve problems in the service industries. This textbook covers state-of-the-art concepts, models and solution methods important in the design, control, operations and management of service enterprises. Service Systems Engineering and Management begins with a basic overview of service industries and their importance in today’s economy. Special challenges in managing services, namely,

perishability, intangibility, proximity and simultaneity are discussed. Quality of service metrics and methods for measuring them are then discussed. Evaluating the design and operation of service systems frequently involves the conflicting criteria of cost and customer service. This textbook presents two approaches to evaluate the performance of service systems – Multiple Criteria Decision Making and Data Envelopment Analysis. The textbook then discusses several topics in service systems engineering and management – supply chain optimization, warehousing and distribution, modern portfolio theory, revenue management, retail engineering, health systems engineering and financial services. Features: Stresses quantitative models and methods in service systems engineering and management Includes chapters on design and evaluation of service systems, supply chain engineering, warehousing and distribution, financial engineering, healthcare systems, retail engineering and revenue management Bridges theory and practice Contains end-of-chapter problems, case studies, illustrative examples, and real-world applications Service Systems Engineering and Management is primarily addressed to those who are interested in learning how to apply operations research models and methods for managing service enterprises. This textbook is well suited for industrial engineering students interested in service

systems applications and MBA students in elective courses in operations management, logistics and supply chain management that emphasize quantitative analysis.

Sketching User Experiences: Getting the Design Right and the Right Design - Bill Buxton 2010-07-28

Sketching User Experiences approaches design and design thinking as something distinct that needs to be better understood—by both designers and the people with whom they need to work— in order to achieve success with new products and systems. So while the focus is on design, the approach is holistic. Hence, the book speaks to designers, usability specialists, the HCI community, product managers, and business executives. There is an emphasis on balancing the back-end concern with usability and engineering excellence (getting the design right) with an up-front investment in sketching and ideation (getting the right design). Overall, the objective is to build the notion of informed design: molding emerging technology into a form that serves our society and reflects its values. Grounded in both practice and scientific research, Bill Buxton's engaging work aims to spark the imagination while encouraging the use of new techniques, breathing new life into user experience design. Covers sketching and early prototyping design methods suitable for dynamic product capabilities: cell phones that communicate with each other and other embedded systems, "smart" appliances, and things you only imagine

in your dreams Thorough coverage of the design sketching method which helps easily build experience prototypes—without the effort of engineering prototypes which are difficult to abandon Reaches out to a range of designers, including user interface designers, industrial designers, software engineers, usability engineers, product managers, and others Full of case studies, examples, exercises, and projects, and access to video clips that demonstrate the principles and methods

GPS for Land Surveyors, Third Edition - Jan Van Sickle 2001-03-01
The GPS Signal - Biases and Solutions - The Framework - Receivers and Methods - Coordinates - Planning a Survey - Observing - Postprocessing - RTK and DGPS.

Mechanical Design - A. C. Ugural 2004
Mechanical Design: An Integrated Approach provides a comprehensive, integrated approach to the subject of machine element design for Mechanical Engineering students and practicing engineers. The authorâ€™s expertise in engineering mechanics is demonstrated in Part I (Fundamentals), where readers receive an exceptionally strong treatment of the design process, stress & strain, deflection & stiffness, energy methods, and failure/fatigue criteria. Advanced topics in mechanics (marked with an asterisk in the Table of Contents) are provided for optional use. The first 8 chapters provide the conceptual basis for Part II (Applications), where the major classes

of machine components are covered. Optional coverage of finite element analysis is included, in the final chapter of the text, with selected examples and cases showing FEA applications in mechanical design. In addition to numerous worked-out examples and chapter problems, detailed Case Studies are included to show the intricacies of real design work, and the integration of engineering mechanics concepts with actual design procedures. The author provides a brief but comprehensive listing of derivations for users to avoid the â€œcookbookâ€ approach many books take. Numerous illustrations provide a visual interpretation of the equations used, making the text appropriate for diverse learning styles. The approach is designed to allow for use of calculators and computers throughout, and to show the ways computer analysis can be used to model problems and explore â€œwhat if?â€ design analysis scenarios.

Handbook of Applied Algorithms - Amiya Nayak 2007-11-09

Discover the benefits of applying algorithms to solve scientific, engineering, and practical problems Providing a combination of theory, algorithms, and simulations, Handbook of Applied Algorithms presents an all-encompassing treatment of applying algorithms and discrete mathematics to practical problems in "hot" application areas, such as computational biology, computational chemistry, wireless networks, and computer vision. In eighteen self-contained chapters,

this timely book explores: * Localized algorithms that can be used in topology control for wireless ad-hoc or sensor networks * Bioinformatics algorithms for analyzing data * Clustering algorithms and identification of association rules in data mining * Applications of combinatorial algorithms and graph theory in chemistry and molecular biology * Optimizing the frequency planning of a GSM network using evolutionary algorithms * Algorithmic solutions and advances achieved through game theory Complete with exercises for readers to measure their comprehension of the material presented, Handbook of Applied Algorithms is a much-needed resource for researchers, practitioners, and students within computer science, life science, and engineering. Amiya Nayak, PhD, has over seventeen years of industrial experience and is Full Professor at the School of Information Technology and Engineering at the University of Ottawa, Canada. He is on the editorial board of several journals. Dr. Nayak's research interests are in the areas of fault tolerance, distributed systems/algorithms, and mobile ad-hoc networks. Ivan StojmenoviC?, PhD, is Professor at the University of Ottawa, Canada (www.site.uottawa.ca/~ivan), and Chair Professor of Applied Computing at the University of Birmingham, United Kingdom. Dr. Stojmenovic? received the Royal Society Wolfson Research Merit Award. His current research interests are

mostly in the design and analysis of algorithms for wireless ad-hoc and sensor networks.

FACTS Controllers - K. R PADIYAR 2020-10

Key Features:Concepts are explained with illustrative examples and case studies. Applications of SVC, TCSC, GCSC, SPST, STATCOM, SSSC, UPFC, IPFC and IPC for voltage/power control in transmission systems. Application of DSTATCOM, DVR and UPQC for improving power quality in distribution systems. Design of Power Oscillation Damping (POD) controllers. Mitigation of SSR using series FACTS Controllers. About the Book:The emerging technology of Flexible AC Transmission System (FACTS) enables planning and operation of power systems at minimum cost, without compromising security. This is based on modern high power electronic systems that provide fast controllability to ensure 'flexible' operation under changing system conditions. This book presents a comprehensive treatment of the subject by discussing the operating principles, mathematical models, control design and issues that affect the applications.

OBJECTIVE Computer Awareness - Arihant Experts 2019-06-04

Computer Awareness is an important section for various exams of the country including IBPS, SBI (Bank PO & Clerk), SSC, Railway, Police and many other state competitive exams. Hence, it comes as no surprise that having strong knowledge about computer plays an important role in getting success in exams. This book “Learn, Revise and Practice

Computer Awareness” once again brings in the complete study material for Computer knowledge at one place for you. Designed on the basis of close considerations of various examinations’ syllabus and pattern, it serves as the most suitable read to understand computer awareness. It includes Chapterwise theories, Question Bank with each chapter, Chapterwise Past Years’ Questions and 5 Practice Sets for Complete Practice. Abbreviations and Glossary are also given at the end. Providing to-the-point, chapterwise study supported by definitions, examples, exercises and more, it promotes the best learning along with revision and practice to perform well in exams. TOC Introduction to Computer, Computer Architecture, Computer Hardware, Computer Memory, Data Representation, Computer Software, Operating System, Programming Concepts, Microsoft Windows, Microsoft Office, Database Concepts, Internet and its Services, Computer Security, Practice Sets (1-5), Abbreviations, Glossary

FUNDAMENTALS OF HEAT AND MASS TRANSFER - B. K. VENKANNA 2010-01-01

"This comprehensive text on the basics of heat and mass transfer provides a well-balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems. The book helps students develop an intuitive and practical under-standing of the processes by emphasizing the underlying physical phenomena involved. Focusing on the requirement to clearly

explain the essential fundamentals and impart the art of problem-solving, the text is written to meet the needs of undergraduate students in mechanical engineering, production engineering, industrial engineering, auto-mobile engineering, aeronautical engineering, chemical engineering, and biotechnology.