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Geotechnical Engineering McGraw-Hill Professional Publishing

For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Physics for Scientists and Engineers CRC Press

The book is written in such a way that learners without any background in programming are able to follow and understand it entirely. It discusses the concepts of Java in a simple and straightforward language with a clear cut explanation, without beating around the bush. On reading the book, readers are able to write simple programs on their own, as this is the first requirement to become a Java Programmer. The book provides ample solved programs which could be used by the students not only in their examinations but also to remove the fear of programming from their minds. After reading the book, the students gain the confidence to apply for a software development company, face the interview board and come out successful. The book covers sample interview questions which were asked in various interviews. It helps students to prepare for their future careers.

Computer Fundamentals Trans Tech Publications Ltd

Electrical drives convert electrical energy into mechanical energy and act as a intermediary between electrical supply systems, various energy sources, driven machines and the energy consumer. Electrical drives are major component in industrial applications, driven technical developments and

focus of various developments. The core component of every electrical drive is the motor. This book is divided into six modules. Module 1 deals with DC machines, principles of operation, emf equation and armature reaction. Module 2 contain principles of DC motors and their torque-speed characteristics. Module 3 mainly deals with transformers and their efficiency calculations. In module 4, various aspects of induction motors were covered. Module 5 and 6 mainly focusses on split phase and stepper motors. Today electrical drives and their automation has become an essential integral part of every system and process. This book will focus primarily on electrical drives and their control for automation, although some of the topics covered will remain applicable to process control.

Water Treatment Plant Design W H Freeman & Company

The first comprehensive reference on mechatronics, The Mechatronics Handbook was quickly embraced as the gold standard in the field. From washing machines, to coffeemakers, to cell phones, to the ubiquitous PC in almost every household, what, these days, doesn't take advantage of mechatronics in its design and function? In the scant five years since the initial publication of the handbook, the latest generation of smart products has made this even more obvious. Too much material to cover in a single volume Originally a single-volume reference, the handbook has grown along with the field. The need for easy access to new material on rapid changes in technology, especially in computers and software, has made the single volume format unwieldy. The second edition is offered as two easily digestible books, making the material not only more accessible, but also more focused. Completely revised and updated, Robert Bishop's seminal work is still the most

exhaustive, state-of-the-art treatment of the field available.

Soil Mechanics and Foundations Elsevier Health Sciences

For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. & Digital Design, fourth edition is a modern update of the classic authoritative text on digital design. & This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Textbook of Pharmacognosy and Phytochemistry - E-Book Pearson Academic

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

Electrical Drives and Control for Automation Technical Publications
The merging of computer and communication technologies with consumer electronics has opened up new vistas for a wide variety of designs of computing systems for diverse application areas. This revised and updated third edition on Computer Organization and Design strives to make the students keep pace with the changes, both in technology and pedagogy in the fast growing discipline of computer science and engineering. The basic principles of how the intended behaviour of complex functions can be realized with the interconnected network of digital blocks are explained in an easy-to-understand style. **WHAT IS NEW TO THIS EDITION** : Includes a new chapter on Computer Networking, Internet, and Wireless Networks. Introduces topics such as wireless input-output devices, RAID technology built around disk arrays, USB, SCSI, etc. **Key Features** Provides a large number of design problems and their solutions in each chapter.

Presents state-of-the-art memory technology which includes EEPROM and Flash Memory apart from Main Storage, Cache, Virtual Memory, Associative Memory, Magnetic Bubble, and Charged Couple Device. Shows how the basic data types and data structures are supported in hardware. Besides students, practising engineers should find reading this design-oriented text both useful and rewarding.

Seek Only Passion Pearson Education India

This book offers a design research methodology intended to improve the quality of design research- its academic credibility, industrial significance and societal contribution by enabling more thorough, efficient and effective procedures.

Theory of Machines OUP India
Designed as an introductory text for the students of computer science, computer applications, electronics engineering and information technology for their first course on the organization and architecture of computers, this accessible, student friendly text gives a clear and in-depth analysis of the basic principles underlying the subject. This self-contained text devotes one full chapter to the basics of digital logic. While the initial chapters describe in detail about computer organization, including CPU design, ALU design, memory design and I/O organization, the text also deals with Assembly Language Programming for Pentium using NASM assembler. What distinguishes the text is the special attention it pays to Cache and Virtual Memory organization, as well as to RISC architecture and the intricacies of pipelining. All these discussions are climaxed by an illuminating discussion on parallel computers which shows how processors are interconnected to create a variety of parallel computers. **KEY FEATURES**
Self-contained presentation starting with data representation and ending with advanced parallel computer architecture. Systematic and logical organization of topics. Large number of worked-out examples and exercises.

Contains basics of assembly language programming. Each chapter has learning objectives and a detailed summary to help students to quickly revise the material.

ELECTRONIC DEVICES AND CIRCUITS PHI Learning Pvt. Ltd.

As a self-study guide, course primer or teaching aid, Bor- chardt-Ott's Crystallography is the perfect textbook for students and teachers alike. In fact, it can be used by chemists, mineralogists, physicists and geologists. Based on the author's more than 20 years of teaching experience, the book has numerous line drawings designed especially for the text and a large number of exercises - with solutions - at the end of each chapter. The fourth edition of the original German text has been translated into English for an international readership. The heart of the book is firmly fixed in geometrical crystallography. It is from the concept of the space lattice that symmetry operations, Bravais lattices, space groups and point groups are all developed. Molecular symmetry and crystal forms are treated. Much emphasis is placed on the correspondence between point groups and space groups. The sections on crystal chemistry and X-ray diffraction are intended as an introduction to these fields.

The Veiled Suite S. Chand Publishing

Mechatronics, the synergistic blend of mechanics, electronics, and computer science, has evolved over the past twenty five years, leading to a novel stage of engineering design. By integrating the best design practices with the most advanced technologies, mechatronics aims at realizing high-quality products, guaranteeing at the same time a substantial reduction of time and costs of manufacturing. Mechatronic systems are manifold and range from machine components, motion generators, and power producing machines to more complex devices, such as robotic systems and transportation vehicles. With its twenty chapters, which collect contributions from many researchers worldwide, this book provides an excellent survey of recent work in the field of mechatronics with applications in various fields, like robotics, medical and assistive technology, human-machine interaction, unmanned vehicles, manufacturing, and education. We would like to thank all the authors who have invested a

great deal of time to write such interesting chapters, which we are sure will be valuable to the readers. Chapters 1 to 6 deal with applications of mechatronics for the development of robotic systems. Medical and assistive technologies and human-machine interaction systems are the topic of chapters 7 to 13. Chapters 14 and 15 concern mechatronic systems for autonomous vehicles. Chapters 16-19 deal with mechatronics in manufacturing contexts. Chapter 20 concludes the book, describing a method for the installation of mechatronics education in schools. Computer Organization Firewall Media

Computer Architecture and Organization, 3rd edition, provides a comprehensive and up-to-date view of the architecture and internal organization of computers from a mainly hardware perspective. With a balanced treatment of qualitative and quantitative issues. Hayes focuses on the understanding of the basic principles while avoiding overemphasis on the arcane aspects of design. This approach best meets the needs of undergraduate or beginning graduate-level students.

Mechatronic Systems Zebra Books
About The Book: The book covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. It is an essential reference book for the practicing microwave engineer
COMPUTER ORGANIZATION AND DESIGN Springer Science & Business Media

"Her father was known as the Ice King and he hated her with a cold fury that well deserved the name. Hated her enough to force her to wed his most despised enemy, the debauched, debt-ridden Earl of Whitby." --Back cover.

The Mechatronics Handbook - 2 Volume Set John Wiley & Sons
This NEW 3rd edition builds on the popular success of prior editions to expand the breadth of Practical Numerical Methods with more VBA macros that boost Excel's power for modeling and analysis. Engineers & scientists will find enhanced coverage of computational tools applicable to a wider variety of problems in their own disciplines. Excel is the de facto

computational tool used by practicing engineers & scientists. Use this book to become proficient with VBA programming & customize your workbooks with time saving enhancements & powerful numerical techniques. Topics include an introduction to modeling, Excel & VBA programming, root-finding for systems of linear & nonlinear equations, eigenproblems, derivative approximation, optimization, experimental uncertainty analysis, least-squares regression & model validation, interpolation, integration, ordinary & partial differential equations. A companion web site has digital files for downloading 200 illustrations, examples, & the refined PNM3Suite workbook with 100 VBA user-defined functions, macros, & user forms for advanced numerical techniques. End-of-chapter practice problems for self-study are also available at the site (www.d.umn.edu/~rdavis/PNM/PNMEExcelVBA3). Example files & macros are ready to be modified by users for their own needs. The introduction includes a primer on chemical reaction engineering for problems involving mass & energy balances with reactions. The next two chapters cover frequently overlooked features of Excel & VBA to apply numerical methods in Excel, as well as document results. The remaining chapters present powerful numerical techniques using Excel & VBA. Introduction to Numerical Methods & Mathematical Modeling Introduction to Excel: Documentation, Graphing, Worksheet Functions, Validation & Formatting, What-if Analysis VBA: Editor, Functions & Sub Procedures, Data Types, Structured Programming, Arithmetic & Worksheet Functions, Flow Control, Arrays, Communication, Message & Input Boxes, User Forms, Reading/Writing Files, Debugging Linear Equations: Matrix Algebra, Gaussian Elimination & Crout Reduction with Pivoting, Thomas, Cholesky, Power, Jacobi, & Interpolation Method for Eigenvalues & Eigenvectors, Jacobi & Gauss-Seidel Iteration, Relaxation Taylor Series Analysis: Finite Difference Derivative Approximations, Richardson's Extrapolation Nonlinear Equations: Root Finding, Bisection, Regula Falsi, Newton & Secant Methods, Wegstein, Quasi-Newton, Aitkin & Steffensen, Homotopy, Goal Seek & Solver, Bairstow's Method for Polynomial Roots Optimization: Solver, Luus-Jaakola, Quadratic Interpolation,

Golden Section, Powell, Constraints, Scaling Uncertainty Analysis: Law of Propagation, Monte Carlo Simulations with Latin Hypercube Sampling Least-squares Regression: Linear & Nonlinear, LINEST, Gauss-Newton, Levenberg-Marquardt, Model Validation & Assessment, Parameter & Model Uncertainty Analysis, Weighted Regression Interpolation: Linear, Newton Divided Difference & Lagrange Polynomials, Rational, Stineman, Cubic & Constrained Splines, Linear & Spline Bivariate Interpolation Integration: Graphical, Trapezoidal, Midpoint for Improper Integrals, Romberg, Adaptive Simpson & Gauss-Kronrod, Multiple Integrals by Simpson, Gauss-Kronrod & Monte Carlo Initial-value Problems: Single Step Euler & Backward Euler, Implicit Trapezoidal for Stiffness, Variable Step Runge-Kutta Cash Karp, Dormand-Prince, Multi-step Adams-Bashforth-Moulton, Differential-Algebraic Systems Boundary-value Problems & Partial Differential Equations: Shooting, Finite Difference, Orthogonal Collocation, Quasilinearization, Method of Lines, Crank-Nicholson Review: Summary Tables of Excel & VBA Functions, User-defined Functions, Macros, User Forms Linux with Operating System Concepts Independently Published Amplitude Modulation : Transmission and Reception Principles of amplitude modulation - AM envelope, Frequency spectrum and bandwidth, Modulation index and Percent modulation, AM power distribution, AM modulator circuits- low-level AM modulator, Medium power AM modulator, AM transmitters-Low-level transmitters, High level transmitters, receiver parameters, AM reception - AM receivers - TRF, Super heterodyne receiver, Double conversion AM receivers. Angle Modulation : Transmission and Reception Angle modulation - FM and PM waveforms, Phase deviation and Modulation index, Frequency deviation, Phase and Frequency modulators and demodulators, Frequency spectrum of Angle - Modulated waves. Bandwidth requirements of Angle modulated waves, Commercial Broadcast band FM, Average power of an angle modulated wave, Frequency and Phase modulators, A direct FM transmitters, Indirect transmitters, Angle modulation Vs Amplitude modulation, FM receivers : FM demodulators, PLL FM demodulators, FM noise suppression, Frequency versus Phase modulation. Digital

Transmission and Data Communication Introduction, Pulse modulation, PCM - PCM sampling, Sampling rate, Signal to quantization noise rate, Companding - Analog and Digital - Percentage error, Delta modulation, Adaptive delta modulation, Differential pulse code modulation, Pulse transmission - ISI, Eye pattern, Data communication history, Standards, Data communication circuits, Data communication codes, Error control, Hardware, Serial and Parallel interfaces, Data modems, - Asynchronous modem, Synchronous modem, Low-speed modem, Medium and High speed modem, Modem control. Digital Communication Introduction, Shannon limit for information capacity, Digital amplitude modulation, Frequency shift keying, FSK bit rate and baud, FSK transmitter, BW consideration of FSK, FSK receiver, Phase shift keying - Binary phase shift keying - QPSK, Quadrature Amplitude modulation, Bandwidth efficiency, Carrier recovery - Squaring loop, Costas loop, DPSK. Spread Spectrum and Multiple Access Techniques Introduction, Pseudo-noise sequence, DS spread spectrum with coherent binary PSK, Processing gain, FH spread spectrum, Multiple access techniques - Wireless communication, TDMA and FDMA, Wireless communication systems, Source coding of speech for wireless communications. Digital Logic and Computer Design PHI Learning Pvt. Ltd. International conference on Advanced Materials and Manufacturing Processes (ICAMMP 18) Selected, peer reviewed papers from the International Conference on Advanced Materials and Manufacturing Processes (ICAMMP 2018), March 30 - 31, 2018, Vizianagaram, India Engineering Mathematics Dreamtech Press A True Textbook for an Introductory Course, System Administration Course, or a Combination Course Linux with Operating System Concepts, Second Edition merges conceptual operating system (OS) and Unix/Linux topics into one cohesive textbook for undergraduate students. The book can be used for a one- or two-semester course on Linux or Unix. It is complete with review sections, problems, definitions, concepts and relevant introductory material, such as

binary and Boolean logic, OS kernels and the role of the CPU and memory hierarchy. Details for Introductory and Advanced Users The book covers Linux from both the user and system administrator positions. From a user perspective, it emphasizes command-line interaction. From a system administrator perspective, the text reinforces shell scripting with examples of administration scripts that support the automation of administrator tasks. Thorough Coverage of Concepts and Linux Commands The author incorporates OS concepts not found in most Linux/Unix textbooks, including kernels, file systems, storage devices, virtual memory and process management. He also introduces computer science topics, such as computer networks and TCP/IP, interpreters versus compilers, file compression, file system integrity through backups, RAID and encryption technologies, booting and the GNUs C compiler. New in this Edition The book has been updated to systemd Linux and the newer services like Cockpit, NetworkManager, firewalld and journald. This edition explores Linux beyond CentOS/Red Hat by adding detail on Debian distributions. Content across most topics has been updated and improved.

Core Java: An Integrated Approach: Covers Concepts, programs and Interview Questions w/CD BoD – Books on Demand

This text provides a basic understanding of digital signal processing concepts and techniques. It begins with the characterization of discrete-time signals and systems in the time and frequency domains augmented by MATLAB functions. It then covers Fourier analysis based on digital techniques.

Computer Organization & Architecture 7e New Age International

This book is the outcome of the authors long teaching experience and has been designed to meet the needs of Civil Engineering curricula for the courses in Soil Mechanics and Foundation Engineering of Indian Universities. The book has been written mainly in the S.I. Units, although some problems and

examples in the M.K.S. system have been included for convenience during the period of transition. The concepts have been developed systematically in lucid language, sufficient number of well-graded Numerical examples and problems for solution have been included, and the answers for the latter have been given at the end of the book. Summary of main points and chapter-wise references have been given at the end of each chapter. References are made to the relevant Indian standard at appropriate places.