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Design Data Handbook for Mechanical Engineers in Si and Metric Units - K. Mahadevan 2018-04-30
Machine design is one of the important subjects in mechanical engineering and a thorough knowledge of the design aspects of machine elements is essential for all design engineers. Working out the design of a machine as a whole, or its components, usually involvesthe use of several formulae, graphs, standard tables and other relevant data. Availability of all such information in one handbook not only eliminates the unnecessary task ot remembering the required formulae and equations, but also helps design engineers to solve the problems in machine design quickly and efficiently. This handbook has been prepared keeping these basics in mind. References have been made to several standard textbooks on machine design while compiling the data of this book. In the preparation of the fourth edition, most of the chapters and topics have been upgraded and improved by adding additional information on current design.

Numerical Modelling and Design of Electrical Machines and Devices - Kay Hameyer 1999-05-21
This text provides an overview of numerical field computational methods and, in particular, of the finite element method (FEM) in magnetics. Detailed attention is paid to the practical use of the FEM in designing electromagnetic devices such as motors, transformers and actuators. Based on the authors' extensive experience of teaching numerical techniques to students and design engineers, the book is ideal for use as a text at undergraduate and graduate level, or as a primer for practising engineers who wish to learn the fundamentals and immediately apply these to actual design problems. Contents: Introduction; Computer Aided Design in Magnetics; Electromagnetic Fields; Potentials and Formulations; Field Computation and Numerical Techniques; Coupled Field Problems; Numerical Optimisation; Linear System Equation Solvers; Modelling of Electrostatic and Magnetic Devices; Examples of Computed Models.

Microprocessor 8086 : Architecture, Programming and Interfacing - Mathur Sunil

A VHDL Primer - Jayaram Bhasker 1995
This book details molecular methodologies used in identifying a disease gene, from the initial stage of study design to the next stage of preliminary locus identification, and ending with stages involved in target characterization and validation.

The 8086 Microprocessor - Kenneth Ayala 1994-12-01
Intended for the beginning programming student taking the first course on the 8086, a 16-bit microprocessor manufactured by Intel. It serves as a campanion text to Ayala's The 8051 Microcontroller: Architecture, Programming, and Applications, 2nd (1997). The text has a software programming emphasis and focuses on assembly language geared to IBM PCs. Digital logic design or basic binary fundamentals are prerequisites, but no prior study of computers or assembly language is necessary. ALSO AVAILABLE INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER Transparency Masters, ISBN: 0-314-05764-1
Advanced Microprocessors and Microcontrollers - B. P. Singh 2008

ARM System Developer's Guide - Andrew Sloss 2004-05-10
Over the last ten years, the ARM architecture has become one of the most pervasive architectures in the world, with more than 2 billion ARM-based processors embedded in products ranging from cell phones to automotive braking systems. A world-wide community of ARM developers in semiconductor and product design companies includes software developers, system designers and hardware engineers. To date no book has directly addressed their need to develop the system and software for an ARM-based system. This text fills that gap. This book provides a comprehensive description of the operation of the ARM core from a developer's perspective with a clear emphasis on software. It demonstrates not only how to write efficient ARM software in C and assembly but also how to optimize code. Example code throughout the book can be integrated into commercial products or used as templates to enable quick creation of productive software. The book covers both the ARM and Thumb instruction sets, covers Intel's XScale Processors, outlines distinctions among the versions of the ARM architecture, demonstrates how to implement DSP algorithms, explains exception and interrupt handling, describes the cache technologies that surround the ARM cores as well as the most efficient memory management techniques. A final chapter looks forward to the future of the ARM architecture considering ARMv6, the latest change to the instruction set, which has been designed to improve the DSP and media processing capabilities of the architecture. * No other book describes the ARM core from a system and software perspective. * Author team combines extensive ARM software engineering experience with an in-depth knowledge of ARM developer needs. * Practical, executable code is fully explained in the book and available on the publisher's Website. * Includes a simple embedded operating system.
Microprocessors and Peripherals - Barry B. Brey 1988

Microprocessors and Microcomputers - Ronald J. Tocci 1979

Image Processing - Tinku Acharya 2005-10-03
Image processing-from basics to advanced applications Learn how to master image processing and compression with thisoutstanding state-of-the-art reference. From fundamentals tosophisticated applications, Image Processing: Principles andApplications covers multiple topics and provides a freshperspective on future directions and innovations in the field,including: * Image transformation techniques, including wavelet transformationand developments * Image enhancement and restoration, including noise modeling andfiltering * Segmentation schemes, and classification and recognition ofobjects * Texture and shape analysis techniques * Fuzzy set theoretical approaches in image processing, neuralnetworks, etc. * Content-based image retrieval and image mining * Biomedical image analysis and interpretation, including biometricalgorithms such as face recognition and signatureverification * Remotely sensed images and their applications * Principles and applications of dynamic scene analysis and movingobject detection and tracking * Fundamentals of image compression, including the JPEG standardand the new JPEG2000 standard Additional features include problems and solutions with eachchapter to help you apply the theory and techniques, as well asbibliographies for researching specialized topics. With itsextensive use of examples and illustrative figures, this is asuperior title for students and practitioners in computer science,wireless and multimedia communications, and engineering.
Dirac and Feynman - Ranabir Dutt 1993
Contributed articles.
Computer Methods in Power System Analysis - Glenn W. Stagg 1968

A Handbook of Practical Auditing - BN Tandon et al. 2006
For the students of B.Com., M.Com, Professional Course of C.A., C.S., I.C.W.A. and Professionals of Financial Institutions.
Microprocessors & Microcontrollers - Atul P. Godse 2008
Pentium Microprocessor Historical evolution of 80286, 386 and 486

processors, Pentium features and architecture, Pin description, Functional description, Pentium real mode, Pentium RISC features, Pentium super-scalar architecture - pipelining, Instruction paring rules, Branch prediction, Instruction and data caches The floating-point unit.Bus Cycles and Memory OrganisationInitialization and configuration, Bus operations-reset, Non pipelined and pipelined (read and write), Memory organisation and I/O organisation, Data transfer mechanism-8 bit, 16 bit, 32 bit data bus interface.Pentium programmingProgrammer's model, Register set, Addressing modes, Instruction set, Data types, Data transfer instructions, String instructions, Arithmetic instructions, Logical instructions, Bit manipulation instructions, Program transfer instructions and Processor control instructions.Protected ModeIntroduction, Segmentation-support registers, Related instructions descriptors, Memory management through segmentation, Logical to linear address translation, Protection by segmentation, Privilege level-protection, Related instructions, Inter-privilege level transfer of control, Paging-support registers, descriptors, Linear to physical address translation, TLB, Page level protection, Virtual memory.Multitasking, Interrupts Exceptions and I/OMultitasking - Support registers, Related descriptors, Task switching, I/O Permission bit map. Virtual mode - features, Address generation, Privilege level, Instructions and registers available, entering and leaving V86 mode. Interrupt structure - Real, Protected and Virtual 8086 modes, I/O handling in Pentium, Comparison of all three modes.8051 Micro-controllerMicro-controller MCS-51 family architecture, On-chip data memory and program memory organization - Register set, Register bank, SFRs, External data memory and program memory, Interrupts structure, Timers and their programming, Serial port and programming, Other features, Design of minimum system using 8051 micro-controller for various applications.PIC Micro-controllerOverview and features of PIC16C, PIC 16F8XX, Pin diagram, Capture mode, Compare mode, PWM mode, Block diagram, Programmer's model PIC, Reset and clocking.Memory organization - program memory, data memory, Flash, EEPROM, PIC 16F8XX addressing modes, Instruction set, programming, I/O ports, Interrupts, Timers, ADC.

Microprocessor and Interfacing - Atul P. Godse
The book provides comprehensive coverage of the hardware and software aspects of the 8085 microprocessor. It also introduces advanced processors from Intel family, SUN SPARC microprocessor and ARM Processor. The book teaches you the 8085 architecture, instruction set, machine cycles and timing diagrams, Assembly Language Programming (ALP), Interrupts, interfacing 8085 with support chips, memory and peripheral ICs - 8255 and 8259. The book explains the features, architecture, memory addressing, operating modes, addressing modes of Intel 8086, 80286, 80386 microprocessors, segmentation, paging and protection mechanism provided by 80386 microprocessor and the features of 80486 and Pentium Processors. It also explains the architecture of SUN SPARC microprocessor and ARM Processor.
Basic Electronics - BL Theraja 2007
Aims of the Book:The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study:1.Diploma in Electronics and Communication Engineering(ECE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like city and guilds of London Institute(CGLI).2.B.E.(Elect.& Comm.)-4-year course offered by various Engineering Colleges.efforts have beenmade to cover the papers:Electronics-I & II and Pulse and Digital Circuits.3.B.Sc.(Elect.)-3-Year vocationalised course recently introduced by Approach.
Embedded Systems: An Integrated Approach - LyLa B. Das
Embedded Systems: An Integrated Approach is exclusively designed for the undergraduate courses in electronics and communication engineering as well as computer science engineering. This book is well-structured and covers all the important processors and their applications in a sequential manner. It begins with a highlight on the building blocks of the embedded systems, moves on to discuss the software aspects and new processors and finally concludes with an insightful study of important applications. This book also contains an entire part dedicated to the ARM processor, its software requirements and the programming languages. Relevant case studies and examples supplement the main discussions in the text.
Microprocessor Architecture, Programming, and Applications with the 8085 - Ramesh S. Gaonkar 2002
The first of its kind to offer an integrated treatment of both the hardware and software aspects of the microprocessor, this comprehensive and thoroughly updated book focuses on the 8085 microprocessor family to

teach the basic concepts underlying programmable devices. A three-part organization covers concepts and applications of microprocessor-based systems: hardware and interfacing, programming the 8085, and interfacing peripherals (I/Os) and applications.
The X86 Microprocessor, 2e - Lyla B. Das 2014
This second edition of The x86 Microprocessors has been revised to present the hardware and software aspects of the subject in a logical and concise manner. Designed for an undergraduate course on the 16-bit microprocessor and Pentium processor, the book provides a detailed analysis of the x86 family architecture while laying equal emphasis on its programming and interfacing attributes. The book also covers 8051 Microcontroller and its applications completely.
Microprocessors and Interfacing - N Senthil Kumar 2012-07-12
Microprocessors and Interfacing is a textbook for undergraduate engineering students who study a course on various microprocessors, its interfacing, programming and applications.
The X86 Microprocessors: Architecture And Programming (8086 To Pentium) - Das Lyla B 2010-09

Advanced Microprocessors & Peripherals - K. M. Bhurchandi 2013

The 8088 and 8086 Microprocessors - Walter A. Triebel 1997

Microprocessors and Microcontrollers - N. Senthil Kumar 2010
Key Features --
ADVANCED LICENSE AND REGISTRATION CHECKING OF VEHICLES USING FINGER PRINT - Balamurali 2018-01-31
The title uses a word advanced because this has been implemented in some of the countries but it has some limitations and negative aspects in the existing system. Here we give solutions for those issues and made this useful for investigation purpose which was not there in the earlier system.
India - A. K. Ray 1995-01-01

8085 MICROPROCESSOR - N. K. SRINATH 2005-01-01
This up-to-date and contemporary book is designed as a first level undergraduate text on micro-processors for the students of engineering (computer science, electrical, electronics, telecommunication, instrumentation), computer applications and information technology. It gives a clear exposition of the architecture, programming and interfacing and applications of 8085 microprocessor. Besides, it provides a brief introduction to 8086 and 8088 Intel microprocessors. The book focusses on : microprocessors starting from 4004 to 80586. instruction set of 8085 microprocessor giving the clear picture of the operations at the machine level. the various steps of the assembly language program development cycle. the hardware architecture of microcomputer built with the 8085 microprocessor. the role of the hardware interfaces: memory, input/output and interrupt, in relation to overall microcomputer system operation. peripheral chips such as 8255, 8253, 8259, 8257 and 8279 to interface with 8085 microprocessor and to program it for different applications.
Fundamentals Of Robotics: Linking Perception To Action - Xie Ming 2003-04-11
Tomorrow's robots, which includes the humanoid robot, can perform task like tutoring children, working as tour guides, driving humans to and from work, do the family shopping etc. Tomorrow's robots will enhance lives in ways we never dreamed possible. No time to attend the decisive meeting on Asian strategy? Let your robot go for you and make the decisions. Not feeling well enough to go to the clinic? Let Dr Robot come to you, make a diagnosis, and get you the necessary medicine for treatment. No time to coach the soccer team this week? Let the robot do it for you.Tomorrow's robots will be the most exciting and revolutionary things to happen to the world since the invention of the automobile. It will change the way we work, play, think, and live. Because of this, nowadays robotics is one of the most dynamic fields of scientific research. These days, robotics is offered in almost every university in the world. Most mechanical engineering departments offer a similar course at both the undergraduate and graduate levels. And increasingly, many computer and electrical engineering departments are also offering it.This book will guide you, the curious beginner, from yesterday to tomorrow. The book will cover practical knowledge in understanding, developing, and using robots as versatile equipment to automate a variety of industrial processes or tasks. But, the book will also discuss the possibilities we can look forward to when we are capable of creating a vision-guided, learning machine.

A Textbook of Applied Electronics - RS Sedha 2008-02
The present book has been throughly revised and lot of useful material has been added .saveral photographs of electronic devices and their specifications sheets have been included.This will help the students to have a better understanding of the electrinic devices and circuits from application point of view.the mistake and misprints,which has crept in,have been eliminated in this edition.

Fuzzy Image Processing and Applications with MATLAB - Tamalika Chaira 2017-12-19
In contrast to classical image analysis methods that employ "crisp" mathematics, fuzzy set techniques provide an elegant foundation and a set of rich methodologies for diverse image-processing tasks. However, a solid understanding of fuzzy processing requires a firm grasp of essential principles and background knowledge. Fuzzy Image Processing and Applications with MATLAB® presents the integral science and essential mathematics behind this exciting and dynamic branch of image processing, which is becoming increasingly important to applications in areas such as remote sensing, medical imaging, and video surveillance, to name a few. Many texts cover the use of crisp sets, but this book stands apart by exploring the explosion of interest and significant growth in fuzzy set image processing. The distinguished authors clearly lay out theoretical concepts and applications of fuzzy set theory and their impact on areas such as enhancement, segmentation, filtering, edge detection, content-based image retrieval, pattern recognition, and clustering. They describe all components of fuzzy, detailing preprocessing, threshold detection, and match-based segmentation. Minimize Processing Errors Using Dynamic Fuzzy Set Theory This book serves as a primer on MATLAB and demonstrates how to implement it in fuzzy image processing methods. It illustrates how the code can be used to improve calculations that help prevent or deal with imprecision—whether it is in the grey level of the image, geometry of an object, definition of an object's edges or boundaries, or in knowledge representation, object recognition, or image interpretation. The text addresses these considerations by applying fuzzy set theory to image thresholding, segmentation, edge detection, enhancement, clustering, color retrieval, clustering in pattern recognition, and other image processing operations. Highlighting key ideas, the authors present the experimental results of their own new fuzzy approaches and those suggested by different authors, offering data and insights that will be useful to teachers, scientists, and engineers, among others.

Real-Time Systems Development - Rob Williams 2005-10-28
Real-Time Systems Development introduces computing students and professional programmers to the development of software for real-time applications. Based on the academic and commercial experience of the author, the book is an ideal companion to final year undergraduate options or MSc modules in the area of real-time systems design and implementation. Assuming a certain level of general systems design and programming experience, this text will extend students' knowledge and skills into an area of computing which has increasing relevance in a modern world of telecommunications and 'intelligent' equipment using embedded microcontrollers. This book takes a broad, practical approach in discussing real-time systems. It covers topics such as basic input and output; cyclic executives for bare hardware; finite state machines; task communication and synchronization; input/output interfaces; structured design for real-time systems; designing for multitasking; UML for real-time systems; object oriented approach to real-time systems; selecting languages for RTS development; Linux device drivers; and hardware/software co-design. Programming examples using GNU/Linux are included, along with a supporting website containing slides; solutions to problems; and software examples. This book will appeal to advanced undergraduate Computer Science students; MSc students; and, undergraduate software engineering and electronic engineering students. * Concise treatment delivers material in manageable sections * Includes handy glossary, references and practical exercises based on familiar scenarios * Supporting website contains slides, solutions to problems and software examples

The 8085 Microprocessor: Architecture, Programming and Interfacing: Architecture, Programming and Interfacing - K. Udaya Kumar 2008
The 8085 Microprocessor: Architecture, Programming and Interfacing is designed for an undergraduate course on the 8085 microprocessor, this text provides comprehensive coverage of the programming and interfacing of the 8-bit microprocessor. Written in a simple and easy-to-understand manner, this book introduces the reader to the basics and the architecture of the 8085 microprocessor. It presents balanced coverage of both hardware and software concepts related to the microprocessor.

Machine Learning for Audio, Image and Video Analysis - Francesco Camastra 2015-07-21
This second edition focuses on audio, image and video data, the three main types of input that machines deal with when interacting with the real world. A set of appendices provides the reader with self-contained introductions to the mathematical background necessary to read the book. Divided into three main parts, From Perception to Computation introduces methodologies aimed at representing the data in forms suitable for computer processing, especially when it comes to audio and images. Whilst the second part, Machine Learning includes an extensive overview of statistical techniques aimed at addressing three main problems, namely classification (automatically assigning a data sample to one of the classes belonging to a predefined set), clustering (automatically grouping data samples according to the similarity of their properties) and sequence analysis (automatically mapping a sequence of observations into a sequence of human-understandable symbols). The third part Applications shows how the abstract problems defined in the second part underlie technologies capable to perform complex tasks such as the recognition of hand gestures or the transcription of handwritten data. Machine Learning for Audio, Image and Video Analysis is suitable for students to acquire a solid background in machine learning as well as for practitioners to deepen their knowledge of the state-of-the-art. All application chapters are based on publicly available data and free software packages, thus allowing readers to replicate the experiments.

Fundamentals of Robotics - Min Xie 2003
Tomorrow's robots, which includes the humanoid robot, can perform task like tutoring children, working as tour guides, driving humans to and from work, do the family shopping etc. Tomorrow's robots will enhance lives in ways we never dreamed possible. No time to attend the decisive meeting on Asian strategy? Let your robot go for you and make the decisions. Not feeling well enough to go to the clinic? Let Dr Robot come to you, make a diagnosis, and get you the necessary medicine for treatment. No time to coach the soccer team this week? Let the robot do it for you. Tomorrow's robots will be the most exciting and revolutionary things to happen to the world since the invention of the automobile. It will change the way we work, play, think, and live. Because of this, nowadays robotics is one of the most dynamic fields of scientific research. These days, robotics is offered in almost every university in the world. Most mechanical engineering departments offer a similar course at both the undergraduate and graduate levels. And increasingly, many computer and electrical engineering departments are also offering it. This book will guide you, the curious beginner, from yesterday to tomorrow. The book will cover practical knowledge in understanding, developing, and using robots as versatile equipment to automate a variety of industrial processes or tasks. But, the book will also discuss the possibilities we can look forward to when we are capable of creating a vision-guided, learning machine. Readership: Upper-level undergraduates, graduates and researchers in robotics &automated systems, artificial intelligence, machine perception and computer vision.

Microprocessors and Interfacing - Douglas V. Hall 1992

Computer Organization 5th Edition - Carl Hamacher

Advances in Communication Systems and Networks - J. Jayakumari 2020-06-13
This book presents the selected peer-reviewed papers from the International Conference on Communication Systems and Networks (ComNet) 2019. Highlighting the latest findings, ideas, developments and applications in all areas of advanced communication systems and networking, it covers a variety of topics, including next-generation wireless technologies such as 5G, new hardware platforms, antenna design, applications of artificial intelligence (AI), signal processing and optimization techniques. Given its scope, this book can be useful for beginners, researchers and professionals working in wireless communication and networks, and other allied fields.

Expert Clouds and Applications - I. Jeena Jacob 2021-07-15
This book features original papers from International Conference on Expert Clouds and Applications (ICOECA 2021), organized by GITAM School of Technology, Bangalore, India during February 18–19, 2021. It covers new research insights on artificial intelligence, big data, cloud computing, sustainability, and knowledge-based expert systems. The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the expert systems, sustainable clouds, and artificial intelligence technologies.

Microcomputer Systems - Yu-Cheng Liu 1986

The 8051 Microcontroller - Muhammad Ali Mazidi 2013-11-01
For courses in 8051 Microcontrollers and Embedded Systems The 8051 Microprocessor: A Systems Approach emphasizes the programming and interfacing of the 8051. Using a systematic, step-by-step approach, the text covers various aspects of 8051, including C and Assembly language programming and interfacing. Throughout each chapter, examples, sample programs, and sectional reviews clarify the concepts and offer students an opportunity to learn by doing.