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Compiler Construction Morgan
Kaufmann
Designed for a one-semester

course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to

electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems.

Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.

Get Set Go Computing: Learn to Code Cards Nirali Prakashan
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.

Linear Control Systems Artech House

This book makes intelligible the wide range of electricity

generating technologies available today, as well as some closely allied technologies such as energy storage. The book opens by setting the many power generation technologies in the context of global energy consumption, the development of the electricity generation industry and the economics involved in this sector. A series of chapters are each devoted to assessing the environmental and economic impact of a single technology, including conventional technologies, nuclear and renewable (such as solar, wind and hydropower). The technologies are presented in an easily digestible form. Different power generation technologies have different greenhouse gas emissions and the link between greenhouse gases and global warming is a highly topical environmental and political issue. With developed nations worldwide looking to reduce their emissions of carbon dioxide, it is becoming increasingly important to explore the effectiveness of a mix of energy generation technologies. Power Generation

Technologies gives a clear, unbiased review and comparison of the different types of power generation technologies available. In the light of the Kyoto protocol and OSPAR updates, Power Generation Technologies will provide an invaluable reference text for power generation planners, facility managers, consultants, policy makers and economists, as well as students and lecturers of related Engineering courses. - Provides a unique comparison of a wide range of power generation technologies - conventional, nuclear and renewable - Describes the workings and environmental impact of each technology - Evaluates the economic viability of each different power generation system

Research in Interactive Design (Vol. 4) New Age International
Based on the popular Artech House classic, **Digital Communication Systems Engineering with Software-Defined**

Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog

converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code

are included to assist readers with their projects in the field.

A Cyber-Physical Systems Approach

Academic Press

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to

understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary

codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, demultiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical,

electronics and computer engineering, and a valuable reference book for professionals and researchers.

With solved problems and MATLAB examples

Laxmi Publications

The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum. Goodrich, Tomassia and Goldwasser's approach to this classic topic is based on the object-oriented paradigm as the framework of choice for the design of data structures. For each ADT presented in the text, the authors provide an associated Java interface. Concrete data structures realizing the ADTs are provided as Java

classes implementing the interfaces. The Java code implementing fundamental data structures in this book is organized in a single Java package, `net.datastructures`. This package forms a coherent library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework.

Machine Drawing

John Wiley & Sons

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746

This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student

inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based

learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of

changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

Numerical Methods and Computer Programming

Academic Press

A guide to the C# programming language covers such topics as object-oriented programming, creating database applications, and Windows 8 programming.

Principles, Devices and Applications

Vikas Publishing House

This C# book has been a favorite of developers ever

since the 1st edition came out in 2004. So you can be sure that this latest edition will deliver the professional skills you're looking for today. In fact, it will teach you the C# essentials more easily than ever, as it shows you how to take advantage of the most recent releases of C#, .NET, and Visual Studio. It's a self-paced book that shows you how to use Visual Studio, C#, and the .NET classes to develop Windows Forms applications whether you're new to programming or not. It's an object-oriented book that shows you how to use business classes, inheritance, and

interfaces the way they're used in the real world. It's a database programming book that shows you how to create professional database applications using Entity Framework and LINQ or ADO.NET. When you're done, you'll be able to develop 3-tiered, object-oriented, Windows Forms applications the way the best professionals do. And you'll have the essential skills that you need to develop any C# application whether for the desktop, the web, or mobile devices.

An Open Introduction
Industrial Press Inc.
Anyone seeking a gentle introduction to the methods of modern

control theory and engineering, written at the level of a first-year graduate course, should consider this book seriously. It contains: A generous historical overview of automatic control, from Ancient Greece to the 1970s, when this discipline matured into an essential field for electrical, mechanical, aerospace, chemical, and biomedical engineers, as well as mathematicians, and more recently, computer scientists; A balanced presentation of the relevant theory: the main state-space methods for description, analysis, and design of linear control systems are derived, without overwhelming theoretical arguments; Over 250 solved and

exercise problems for both continuous- and discrete-time systems, often including MATLAB simulations; and Appendixes on MATLAB, advanced matrix theory, and the history of mathematical tools such as differential calculus, transform methods, and linear algebra. Another noteworthy feature is the frequent use of an inverted pendulum on a cart to illustrate the most important concepts of automatic control, such as: Linearization and discretization; Stability, controllability, and observability; State feedback, controller design, and optimal control; and Observer design, reduced order observers, and Kalman filtering. Most of the problems are given

with solutions or MATLAB simulations. Whether the book is used as a textbook or as a self-study guide, the knowledge gained from it will be an excellent platform for students and practising engineers to explore further the recent developments and applications of control theory.

Murach's C# 2012

Springer Science & Business Media

Now you can acquire the savvy needed to capitalize on the boom in correctional facility construction and renovation! This guide offers you a one-stop reference on designing, detailing, and specifying

correctional facilities of all kinds. Ranging from rural, campus-like settings to urban high-rises, the book covers all major components of typical jails and prisons, including inmate housing, support functions, and security requirements ... features an easy-to-use, graphical approach based on modules ... and presents a wide range of case studies of both new and remodeled projects.

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Springer Science & Business Media

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 Engineering Mathematics - Ii MIT Press Introduction to Optimum Design, Third Edition describes an organized approach to engineering design optimization in a rigorous yet simplified manner. It illustrates various concepts and procedures with simple examples and demonstrates their applicability to engineering design problems. Formulation of a design problem as an optimization problem is emphasized and illustrated

throughout the text. Excel and MATLAB® are featured as learning and teaching aids. Basic concepts of optimality conditions and numerical methods are described with simple and practical examples, making the material highly teachable and learnable. Includes applications of optimization methods for structural, mechanical, aerospace, and industrial engineering problems. Introduction to MATLAB Optimization Toolbox. Practical design examples introduce students to the use of optimization methods early in the book. New example problems throughout the text are enhanced with detailed illustrations. Optimum design with Excel Solver has been expanded into a full

chapter. New chapter on several advanced optimum design topics serves the needs of instructors who teach more advanced courses. *Engineering Materials (Material Science)*. New Age International. Internet of Things: Technologies and Applications for a New Age of Intelligence outlines the background and overall vision for the Internet of Things (IoT) and Cyber-Physical Systems (CPS), as well as associated emerging technologies. Key technologies are described including device communication and interactions, connectivity of devices to cloud-based infrastructures, distributed and edge computing, data collection, and methods to derive

information and knowledge from connected devices and systems using artificial intelligence and machine learning. Also included are system architectures and ways to integrate these with enterprise architectures, and considerations on potential business impacts and regulatory requirements. Presents a comprehensive overview of the end-to-end system requirements for successful IoT solutions Provides a robust framework for analyzing the technology and market requirements for a broad variety of IoT solutions Covers in-depth security solutions for IoT systems Includes a detailed set of use cases that give

examples of real-world implementation
Machine Design Data Book, 2e Cengage Learning
Machine Design is interdisciplinary and draws its matter from different subjects such as Thermodynamics, Fluid Mechanics, Production Engineering, Mathematics etc. to name a few. As such, this book serves as a databook for various subjects of Mechanical Engineering. It also acts as a supplement to our popular book, *Design of Machine Elements*. It's a concise, updated data handbook that maps with the syllabi of all major universities and technical boards of India as well as professional examining bodies such as Institute of Engineers.

Software-Defined
Radio for Engineers
Technical
Publications
Covering key topics
in the field such
as technological
innovation, human-
centered
sustainable
engineering and
manufacturing, and
manufacture at a
global scale in a
virtual world, this
book addresses both
advanced techniques
and industrial
applications of key
research in
interactive design
and manufacturing.
Featuring the full
papers presented at
the 2014 Joint
Conference on
Mechanical Design
Engineering and

Advanced
Manufacturing,
which took place in
June 2014 in
Toulouse, France,
it presents recent
research and
industrial success
stories related to
implementing
interactive design
and manufacturing
solutions.
*Microprocessor and
Interfacing* Elsevier
Contracts & Accounts
(WBSCTE)Vikas
Publishing House
*Data Structures and
Algorithms in Java*
John Wiley & Sons
Praise for the First
Edition ". . .
outstandingly
appealing with regard
to its style,
contents,
considerations of
requirements of
practice, choice of

examples, and exercises."
-Zentrablatt Math ". . . carefully structured with many detailed worked examples . . ."
-The Mathematical Gazette ". . . an up-to-date and user-friendly account . . ."
-Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material

and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and

engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis.

Practical

Centrifugal Pumps

Contracts & Accounts
(WBSCTE)

Software Defined

Networks: A

Comprehensive

Approach, Second

Edition provides in-

depth coverage of

the technologies

collectively known

as Software Defined

Networking (SDN).

The book shows how

to explain to

business decision-

makers the benefits

and risks in

shifting parts of a

network to the SDN

model, when to

integrate SDN

technologies in a

network, and how to develop or acquire SDN applications. In

addition, the book

emphasizes the parts

of the technology

that encourage

opening up the

network, providing

treatment for

alternative

approaches to SDN

that expand the

definition of SDN as

networking vendors

adopt traits of SDN

to their existing

solutions. Since the

first edition was

published, the SDN

market has matured,

and is being

gradually integrated

and morphed into

something more

compatible with

mainstream networking

vendors. This book

reflects these

changes, with

coverage of the OpenDaylight controller and its support for multiple southbound protocols, the Inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved version (1.5.1) of the OpenFlow specification. Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses
A Comprehensive Approach Springer

Science & Business Media
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.