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# Techmax Publications Easy Solution

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REPAIRS OF  
STRUCTURES  
(22602) Springer  
Science & Business  
Media  
Designed for a one-  
semester course in  
Finite Element Method,  
this compact and well-

MAINTENANCE AND

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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.

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**An Open Introduction** Pearson Education  
Mechanical Vibrations: Theory and Applications takes an applications-based approach at teaching students to apply previously learned engineering principles while laying a foundation for engineering design. This text provides a brief review of the principles of dynamics so that terminology and notation are consistent and applies these principles to derive mathematical models of dynamic mechanical systems. The methods of application of these principles are consistent with popular Dynamics texts. Numerous pedagogical features have been included in the text in order to aid the student with comprehension and retention. These include the development of three benchmark problems which are revisited in each chapter, creating a coherent chain linking all chapters in the book. Also included are learning outcomes, summaries of key concepts including important equations and formulae, fully solved examples with an

emphasis on real world examples, as well as an extensive exercise set including objective-type questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Introduction to Optimum Design* McGraw-Hill Professional Publishing  
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

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modules ... and presents a wide range of case studies of both new and remodeled projects.

With solved problems and MATLAB examples Industrial Press Inc.

Practical Centrifugal Pumps is a comprehensive guide to pump construction, application, operation, maintenance and management issues. Coverage includes pump classifications, types and criteria for selection, as well as practical information on the use of pumps, such as how to read pump curves and cross reference. Throughout the book the focus is on best practice and developing the skills and knowledge required to recognise and solve pump problems in a structured and confident manner. Case studies provide real-world scenarios covering the design, set up, troubleshooting and maintenance of pumps. · A comprehensive guide to pump construction, design, installation, operation, troubleshooting and maintenance. · Develop real-world knowhow and practical

skills through seven real-world case studies · Coverage includes pump classifications, types and criteria for selection, as well as practical information on the use of pumps

**(in S.I. Units)**

Nirali Prakashan

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

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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

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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](http://discrete.openmathbooks.org)  
Easy Solutions to Problem Golf Swings  
New Age International

The Only Golf Lesson You'll Ever Need, Hank Haney, one of the most respected and soughtafter golf instructors in the world, shares the secrets he's learned by observing hundreds of thousands of students--from top PGA Tour pros to high-handicappers. He explains how intelligent observation of your ball-flight tendencies--the way your shot behaves in the air--provides the answers to helping you develop a consistent repeating swing that will lower your scores. You'll also pick up valuable pointers on how to precisely match your equipment to your game. Hank Haney

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believes that a                      and under the  
"flawed swing" that                      severest pressure.  
still produces a goodBoth are a tribute to  
shot is a good swing. Hank Haney and his  
By focusing on the                      teaching. Hank knows  
outcome of your swingmore about ballflight  
first, rather than onand what controls it  
the swing itself, he                      than anyone in the  
believes you can                      game. And if you  
often avoid making                      understand that,  
the awkward and                      you're on your way."  
unnatural changes to                      -- Mark O'Meara from  
grip, stance, posturethe Foreword to The  
and alignment that                      Only Golf Lesson  
many golf instructorsYou'll Ever Need  
ask of their                      A HEAT TRANSFER  
students. The Only                      TEXTBOOK Cengage  
Golf Lesson You'll                      Learning  
Ever Need will help                      The fundamentals and  
you straighten your                      implementation of  
hook or slice, add                      digital electronics  
distance to your                      are essential to  
drives, identify and                      understanding the  
fix the flaws in your                      design and working  
swing, and become a                      of  
wizard around the                      consumer/industrial  
greens. "I'm proud of                      electronics,  
the way my swing                      communications,  
holds up ion all                      embedded systems,  
kinds of conditions                      computers, security

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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

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,



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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.

*Technologies and Applications for a New Age of Intelligence* Notion Press

Principles of Management is designed to meet the scope and sequence requirements of the introductory course

on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach.

Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource management and strategic management, as well behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an additional benefit of this text is

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that specialists in a variety of areas have authored individual chapters.

*A Cyber-Physical Systems Approach*

John Wiley & Sons

A Coherent Systems View of Wireless and Cellular Network Design and Implementation

Written for senior-level undergraduates, first-year graduate students, and junior technical professionals, *Introduction to Wireless Systems* offers a coherent systems view of the crucial lower layers of today's cellular systems. The authors introduce today's most important propagation issues,

modulation techniques, and access schemes, illuminating theory with real-world examples from modern cellular systems. They demonstrate how elements within today's wireless systems interrelate, clarify the trade-offs associated with delivering high-quality service at acceptable cost, and demonstrate how systems are designed and implemented by teams of complementary specialists. Coverage includes understanding the challenge of moving information wirelessly between two points. Explaining how system and subsystem designers

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work together to analyze, plan, and implement optimized wireless systems  
Designing for quality reception: using the free-space range equation, and accounting for thermal noise  
Understanding terrestrial channels and their impairments, including shadowing and multipath reception  
Reusing frequencies to provide service over wide areas to large subscriber bases  
Using modulation: frequency efficiency, power efficiency, BER, bandwidth, adjacent-channel interference, and spread-spectrum modulation  
Implementing multiple

access methods, including FDMA, TDMA, and CDMA  
Designing systems for today's most common forms of traffic—both "bursty" and "streaming"  
Maximizing capacity via linear predictive coding and other speech compression techniques  
Setting up connections that support reliable communication among users  
Introduction to Wireless Systems brings together the theoretical and practical knowledge readers need to participate effectively in the planning, design, or implementation of virtually any wireless system.  
Research in Interactive Design (Vol. 4) Springer

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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  
Compiler  
Construction Laxmi  
Publications  
This introduction to  
computational  
geometry focuses on  
algorithms.  
Motivation is  
provided from the  
application areas as  
all techniques are  
related to

particular  
applications in  
robotics, graphics,  
CAD/CAM, and  
geographic  
information systems.  
Modern insights in  
computational  
geometry are used to  
provide solutions  
that are both  
efficient and easy to  
understand and  
implement.  
*Mechanics, Design  
Engineering and  
Advanced  
Manufacturing* MIT  
Press  
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

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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. Its self-paced book that shows you how to use Visual Studio, C#, and the .NET classes to develop Windows Forms applications whether youre new to programming or not. Its an object-oriented book that shows you how to use business classes, inheritance, and interfaces the way theyre used in the real world. Its a database programming book that shows you how to create professional database applications using the C# Entity Framework and LINQ or ADO.NET. When youre done, youll be able to develop 3-tiered, object-oriented, Windows Forms applications the way the best professionals do. And youll have the essential skills that you need to develop any C# application whether for the desktop, the web, or mobile devices.

**Principles of Management** McGraw-Hill Education  
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

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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* PHI Learning Pvt. Ltd.

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

Machine Drawing  
Elsevier

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

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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. Correctional Facility Design and Detailing Contracts & Accounts (WBSCTE) 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

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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  
*Data Structures and  
Algorithms in Java*  
Vikas Publishing House  
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,



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advanced matrix theory, excellent platform for 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

students and practising engineers to explore further the recent developments and applications of control theory.

*Software Defined Networks* John Wiley & Sons

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

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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.

**The Only Golf Lesson You'll Ever Need**

New Age International  
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

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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

**Murach's C# 2012**

Morgan Kaufmann

This book has been written with total focus on meeting the objectives of the subject 'Contracts and Accounts' as given by the syllabus of WBSCTE. The text has been written so as to create interest in the minds of students in learning further.