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Microwave Engineering John Wiley & Sons

The present edition of this book is in S.I. Units To Make the book really useful at all levels,a number of articles as well as sloved and unsolved examples have been added.The mistake,which had crept in,have been eliminated.Three new chapters of Thick Cylindrical and Spherical shells,Bending of Curved Bars and Mechanical Properties of Materials have also been added.

Probability and Statistics

PHI Learning Pvt. Ltd.

Focuses on mathematical understanding Presentation is self-contained, accessible, and comprehensive Full color throughout Extensive list of exercises and worked-out

examples Many concrete algorithms with actual code *Control System Engineering* MIT Press

Pozar's new edition of *Microwave Engineering* includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material

includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

Machine Drawing MIT Press

Over the past few decades there has been a prolific increase in research and development in area of heat transfer, heat exchangers and their associated technologies. This book is a collection of current research in the above mentioned areas and discusses experimental, theoretical and calculation approaches and industrial utilizations with modern ideas and methods to study heat transfer for single and multiphase systems. The topics considered include various basic concepts of heat transfer, the fundamental modes of heat transfer (namely conduction, convection and radiation), thermophysical

properties, condensation, boiling, freezing, innovative experiments, measurement analysis, theoretical models and simulations, with many real-world problems and important modern applications. The book is divided in four sections : "Heat Transfer in Micro Systems", "Boiling, Freezing and Condensation Heat Transfer", "Heat Transfer and its Assessment", "Heat Transfer Calculations", and each section discusses a wide variety of techniques, methods and applications in accordance with the subjects. The combination of theoretical and experimental investigations with many important practical applications of current interest will make this book of interest to researchers, scientists, engineers and graduate students, who make use of experimental and theoretical investigations, assessment and enhancement techniques in this multidisciplinary field as well as to researchers in mathematical modelling, computer simulations and information sciences, who make use of experimental and theoretical investigations as a means of critical assessment of models and results derived from advanced numerical simulations and improvement of the developed models and numerical methods.

Reinforcement Learning, second edition Technical Publications
Includes more than 30

percent revised material and five new chapters, covering the new 2.1 features such as EJB Timer Service and JMS as well as the latest open source Java solutions. The book was developed as part of TheServerSide.com online EJB community, ensuring a built-in audience. Demonstrates how to build an EJB system, program with EJB, adopt best practices, and harness advanced EJB concepts and techniques, including transactions, persistence, clustering, integration, and performance optimization. Offers practical guidance on when not to use EJB and how to use simpler, less costly open source technologies in place of or in conjunction with EJB.

Beginning C++ Programming Packt Publishing Ltd
A revision of the best selling innovative Calculus text on the market. Functions are presented graphically, numerically, algebraically, and verbally to give readers the benefit of alternate interpretations. The text is problem driven with exceptional exercises based on real world applications from engineering, physics, life sciences, and economics. Revised edition features new sections on limits and continuity, limits, l'Hopital's Rule, and relative growth rates, and hyperbolic functions.

Artificial Intelligence in the

21st Century Industrial Press Inc.
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.

The Elements of Computing Systems

Cengage Learning

Intended as a textbook for the undergraduate students of civil and mechanical engineering, this book is the outcome of authors' vast experience in this subject area. It presents the basic theories of hydraulics and all types of hydraulic machines that are used in these days in our day-to-day life. Organized in two parts—Hydraulics (Part I) and Hydraulic Machines (Part II), the book is written in an easy-to-follow method in conformity to the syllabi followed in universities. The chapter end exercises of all the chapters are carefully prepared for the students, which enhance their problem-solving skills. This book is also useful for the students of chemical, electrical and aeronautical engineering. Key Features Copious well-illustrated figures

Detailed description of various types of pumps and miscellaneous hydraulic machines

Numerous solved problems and unsolved problems with answers
Deductions and numerical examples in S.I. Units

Theory of Machines St. Martin's Press

The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of

elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. The book

uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Fox and McDonald's
Introduction to Fluid
Mechanics Jones &
Bartlett Learning

For close to 30 years,

Basic Electrical
Engineering has been
the go-to text for
students of Electrical
Engineering. Emphasis on
concepts and clear
mathematical derivations,
simple language coupled
with systematic
development of the
subject aided by
illustrations makes this
text a fundamental read
on the subject. Divided
into 17 chapters, the

book covers all the major
topics such as DC
Circuits, Units of Work,
Power and Energy,
Magnetic Circuits,
fundamentals of AC
Circuits and Electrical
Instruments and
Electrical Measurements
in a straightforward
manner for students to
understand.

Principles of Operating
Systems Technical
Publications

Based on his own
extraordinary life,
Gregory David Roberts '
Shantaram is a
mesmerizing novel about
a man on the run who
becomes entangled within
the underworld of
contemporary

Bombay—the basis for the
Apple + TV series
starring Charlie Hunnam.

“ It took me a long time
and most of the world to
learn what I know about
love and fate and the
choices we make, but the
heart of it came to me in
an instant, while I was
chained to a wall and
being tortured. ” An
escaped convict with a
false passport, Lin flees
maximum security prison
in Australia for the
teeming streets of
Bombay, where he can
disappear. Accompanied
by his guide and faithful
friend, Prabaker, the two

enter the city ' s hidden
society of beggars and
gangsters, prostitutes and
holy men, soldiers and
actors, and Indians and
exiles from other
countries, who seek in
this remarkable place
what they cannot find
elsewhere. As a hunted
man without a home,
family, or identity, Lin
searches for love and
meaning while running a
clinic in one of the city ' s
poorest slums, and
serving his apprenticeship
in the dark arts of the
Bombay mafia. The
search leads him to war,
prison torture, murder,
and a series of enigmatic
and bloody betrayals. The
keys to unlock the
mysteries and intrigues
that bind Lin are held by
two people. The first is
Khader Khan: mafia
godfather, criminal-
philosopher-saint, and
mentor to Lin in the
underworld of the Golden
City. The second is Karla:
elusive, dangerous, and
beautiful, whose passions
are driven by secrets that
torment her and yet give
her a terrible power.
Burning slums and five-
star hotels, romantic love
and prison agonies,
criminal wars and
Bollywood films, spiritual
gurus and mujaheddin
guerrillas—this huge novel

has the world of human experience in its reach, and a passionate love for India at its heart.

Data Science and Machine Learning BoD – Books on Demand

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.

Basic Electrical Engineering CRC Press
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 No Starch Press

The book is written for an undergraduate course on the Feedback Control Systems. It provides comprehensive explanation of theory and practice of control system engineering. It elaborates various aspects of time domain

and frequency domain analysis and design of control systems. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book starts with explaining the various types of control systems. Then it explains how to obtain the mathematical models of various types of systems such as electrical, mechanical, thermal and liquid level systems. Then the book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view. The book further illustrates the steady state and transient

analysis of control systems. The book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems. The book emphasizes the detailed analysis of second order systems as these systems are common in practice and higher order systems can be approximated as second order systems. The book teaches the concept of stability and time domain stability analysis using Routh-Hurwitz method and root locus method. It further explains the fundamentals of frequency domain analysis of the systems including co-relation between time domain and frequency domain. The book gives very simple techniques for stability analysis of the systems in the frequency domain, using Bode plot, Polar plot and Nyquist plot methods. It also explores the concepts of compensation and design of the control systems in time domain and frequency domain. The classical approach loses the importance of initial conditions in the systems. Thus, the book provides the detailed explanation of modern approach of analysis

which is the state variable analysis of the systems including methods of finding the state transition matrix, solution of state equation and the concepts of controllability and observability. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Teach Me How to Die

Mercury Learning and Information

First chapter deals with probability and random variable discussion. CDF, PDF and two dimensional random variables are discussed. Second chapter presents various useful probability distribution models. It also presents useful statistical averages such as mean, moments, variance, etc. Third chapter presents basic statistics concepts. Mean, median, mode, moments, variance, Kurtosis, skewness are discussed. Correlation, regression, Chebyshev inequality are also presented. Fourth

chapter discusses formation of hypothesis, tests of significance and chi-square distribution.

Last chapter presents curve fitting using straight line and second degree parabola.

A Textbook of Strength of Materials PHI Learning Pvt. Ltd.

This new edition provides a comprehensive, colorful, up-to-date, and accessible presentation of AI without sacrificing theoretical foundations. It includes numerous examples, applications, full color images, and human interest boxes to enhance student interest. New chapters on robotics and machine learning are now included.

Advanced topics cover neural nets, genetic algorithms, natural language processing, planning, and complex board games. A companion DVD is provided with resources, applications, and figures from the book. Numerous instructors' resources are available upon adoption. eBook Customers: Companion

files are available for downloading with order number/proof of purchase by writing to the publisher at info@merclearning.com.

FEATURES: • Includes new chapters on robotics and machine learning and new sections on speech understanding and metaphor in NLP •

Provides a comprehensive, colorful, up to date, and accessible presentation of AI without sacrificing theoretical foundations

- Uses numerous examples, applications, full color images, and human interest boxes to enhance student interest
- Introduces important AI concepts e.g., robotics, use in video games, neural nets, machine learning, and more thorough practical applications
- Features over 300 figures and color images with worked problems detailing AI methods and solutions to selected exercises
- Includes DVD with resources, simulations, and figures from the book
- Provides numerous instructors'

resources, including: solutions to exercises, Microsoft PP slides, etc. TEXTBOOK OF FINITE ELEMENT ANALYSIS Pearson Academic Computing

Walter Klein can't stop thinking about death. He wonders what would happen if he stuck a knife in his toaster. He wonders if his latest elevator ride will end in the cable snapping and everyone plummeting to their doom. He wonders if today will be the day he dies, but he knows it won't be from a toaster or an elevator. It will be from the cancer. He has refused treatment, and soon the cancer will take him away. There is no hope left. When Walter finally passes on, after a painfully ordinary day full of a million little regrets, he has no idea what awaits him. The first person Walter meets on his journey is his guide, Vincent. As the two men make their way through different planes of existence and contemplate the true meanings of life and death, something

surprising will happen. Vincent begins to see Walter as a friend. The adventures that await the lonely spirit and his steadfast guide will change both of their hearts and reveal the truth about human nature. Writer Joseph Rauch uses Walter and Vincent to weave an intricate story about spirituality, death, grief, and love.

Introduction to Embedded Systems, Second Edition New Age International

While writing the book, we have continuously kept in mind the examination requirements of the students preparing for U.P.S.C.(Engg. Services) and A.M.I.E.(I) examinations. In order to make this volume more useful for them, complete solutions of their examination papers up to 1975 have also been included. Every care has been taken to make this treatise as self-explanatory as possible. The subject matter has been amply illustrated by incorporating a good number of solved, unsolved and well graded examples of almost every variety.

Material Science & Engineering Packt Publishing Ltd

An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems

stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems. Discrete Mathematics for Computer Science New

Age International
Would you like to learn how to troubleshoot computer problems quickly and with confidence? Are you tired of asking others for help whenever an error message appears? This book features all-new solutions to problems in common computer programs, including Microsoft Word, Excel, email, Internet Explorer, and more.