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Engineering Mathematics Jaggi
Mathur

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This treatment of differential geometry and the mathematics required for general relativity makes the subject accessible, for the first time, to anyone familiar with elementary calculus in one variable and with some knowledge of vector algebra. The emphasis throughout is on the geometry of the mathematics, which is greatly enhanced by the many illustrations presenting figures of three and more dimensions as closely as the book form will allow. Fuzzy set theory provides us with a framework which is wider than that of classical set theory. Various mathematical structures, whose

features emphasize the effects of ordered structure, can be developed on the theory. Fuzzy topology is one such branch, combining ordered structure with topological structure. This branch of mathematics, emerged from the background — processing fuzziness, and locale theory, proposed from the angle of pure mathematics by the great French mathematician Ehresmann, comprise the two most active aspects of topology on lattice, which affect each other. This book is the first monograph to systematically reflect the up-to-date state of fuzzy topology. It emphasizes the so-called “pointed approach” and the effects of stratification structure appearing in fuzzy sets. The monograph can

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serve as a reference book for mathematicians, researchers, and graduate students working in this branch of mathematics. After an appropriate rearrangements of the chapters and sections, it can also be used as a text for undergraduates.

Contents:Fuzzy Topological SpacesOperations on Fuzzy Topological SpacesL-Valued Stratification SpacesConvergence TheoryConnectednessSome Properties Related to CardinalsSeparation (I)Separation (I I)CompactnessCompactificationParacompactnessUniformity and ProximityMetric SpacesRelations Between Fuzzy Topological Spaces and Locales
Readership: Senior undergraduates, graduate students,

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and researchers in mathematics and computer science.

**keywords:Fuzzy;Topology;Fuzzy
Lattice;Lattice-valued**

Topology;Multiple Choice

Principle;Coincident Neighborhood

Structure;Level Structure;Pointlike

Structure;Ordered Structure;Locale

**“This will be a very useful reference
book for everyone working in this
field.” Mathematical Reviews**

**The purpose of this book, Production
Technology, is to provide a**

comprehensive knowledge and

insight into various aspects of

**engineering materials, their heat and
fabrication, manufacturing**

processes, machining and tooling

techniques, non-conventional

methods of machining, the cutting

tools, tooling equipment and machine tools, dies, jigs and fixtures, presses etc. As computers are finding more and more usage in factories, special attention has been given for their full coverage. Other chapters have been especially added in view of the latest trends and developments taking place in the field of production. Modern practices and recent trends on automation have been covered in each chapter. A good number of important problems collected from several universities have been solved and given at the end of each chapter.

Applied Mathematics-III (AU,UP)

Proceeding of SSIC 2019

Optical Fiber Telecommunications

IV

Linear Integrated Circuits

The Geometric Viewpoint and its Uses

The term Federated Learning was coined as recently as 2016 to describe a machine learning setting where multiple entities collaborate in solving a machine learning problem, under the coordination of a central server or service provider. Each client's raw data is stored locally and not exchanged or transferred; instead, focused updates intended for immediate aggregation are used to achieve the learning objective. Since then, the topic has gathered much interest across many different disciplines and the realization that solving many of these interdisciplinary problems likely

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requires not just machine learning but techniques from distributed optimization, cryptography, security, differential privacy, fairness, compressed sensing, systems, information theory, statistics, and more. This monograph has contributions from leading experts across the disciplines, who describe the latest state-of-the art from their perspective. These contributions have been carefully curated into a comprehensive treatment that enables the reader to understand the work that has been done and get pointers to where effort is required to solve many of the problems before Federated Learning can become a reality in practical systems. Researchers

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working in the area of distributed systems will find this monograph an enlightening read that may inspire them to work on the many challenging issues that are outlined. This monograph will get the reader up to speed quickly and easily on what is likely to become an increasingly important topic: Federated Learning.

The book features original papers from the 2nd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2019), presenting scientific work related to smart solution concepts. It discusses computational collective intelligence, which includes interactions between smart devices, smart

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environments and smart interactions, as well as information technology support for such areas. It also describes how to successfully approach various government organizations for funding for business and the humanitarian technology development projects. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced studies.

This work is based on the experience and notes of the authors while teaching mathematics courses to engineering students at the Indian Institute of Technology, New Delhi. It covers syllabi of two core courses in mathematics for

engineering students.
Privacy and Incentive
Engineering Problems
International Books in Print
PCCDS 2020
Rectangular Dielectric Resonator
Antennas

The book presents a comprehensive study of important topics in Mechanics of pure and applied sciences. It provides knowledge of scalar and vector in optimum depth to make the students understand the concepts of Mechanics in simple, coherent and lucid manner and grasp its principles & theory. It caters to the requirements of students of B.Sc. Pass and Honours courses. Students of engineering disciplines and the ones aspiring for competitive exams such as AIME and others, will also find it useful for their preparations.

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The standard-setting reference in medical toxicology—trusted as the leading evidencebased resource for poison emergencies A Doody's Core Title for 2017! For decades, one name has been synonymous with the most respected, rigorous perspectives on medical toxicology and the treatment of poisoned and overdosed patients: Goldfrank's Toxicologic Emergencies. Presented in full color, Goldfrank's delivers essential, patientcenteredcoverage of every aspect of poison management. The editors and authors are recognized as preeminent scholars in their specialties and provide unmatched coverage of all aspects of toxicologic emergencies, from pharmacology and clinical presentation to cutting-edge treatment strategies. Goldfrank's Toxicologic Emergencies, Tenth Edition begins

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with an examination of medical toxicology principles and techniques. It then reviews the biochemical, molecular, and pathophysiologic basis of toxicology, followed by an intense focus on toxicologic principles related to special patient populations. Features Case studies enhance your understanding of the clinical application of the text material Practical focus on the pathophysiologic basis of medical toxicology The Antidotes in Depth sections delivers the expertise of toxicologists across the world as they present treatments for critically ill poisoned and overdosed patients and allow you to easily identify key issues relating to the use of complex and often unfamiliar therapies The principles of risk management, medicolegal decision making, patient

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safety, post mortem toxicology and the assessment of ethanol induced impairment described in chapters and Special Considerations emphasize the interface between medical toxicology, the law, and quality care

This book covers resonating modes inside device and gives insights into antenna design, impedance and radiation patterns. It discusses how higher-order modes generation and control impact bandwidth and antenna gain. The text covers new approaches in antenna design by investigation hybrid modes, H_Z and E_Z fields available simultaneously, and analysis and modelling on modes with practical applications in antenna design. The book will be prove useful to students, researchers and professionals alike. Goldfrank's Toxicologic Emergencies, Tenth Edition (ebook)

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Mechanics

Indian Books in Print

Advanced Calculus

Proceedings of IWPSD 2017

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence.

Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement

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Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms

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presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy.

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The final chapter discusses the future societal impacts of reinforcement learning.

The aim of this book is to provide a consolidated text for the first year B.E. Computer Science and Engineering students and B.Tech Information Technology students of Anna University.

The syllabus has been thoroughly revised for the non-semester yearly pattern by the University. The book, made up of five chapters, systematically covers the five units of the syllabus. It begins with a detailed discussion on the fundamentals of electric circuits. DC circuits, AC

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circuits, 3-phase circuits, resonance and the network theorems. Lecture-type presentation of the rudiments of the fundamentals in conjunction with hundreds of solved examples is the strength of this book. Magnetic circuits and various magnetic elements and their properties, with number of illustrations are presented. DC machines and transformers are further dealt with. Equivalent circuits of machines supported with the respective photographs will ease the reader to understand the concepts of machines much better. Synchronous machines and asynchronous

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machines and fundamentals of control systems with various practical examples and relevant worked illustrations conclude this book. A large number of numerical illustrations and diagrammatic representations make this book valuable for students and teachers.

Advances in discrete mathematics are presented in this book with applications in theoretical mathematics and interdisciplinary research. Each chapter presents new methods and techniques by leading experts. Unifying interdisciplinary applications, problems, and approaches of

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discrete mathematics, this book connects topics in graph theory, combinatorics, number theory, cryptography, dynamical systems, finance, optimization, and game theory. Graduate students and researchers in optimization, mathematics, computer science, economics, and physics will find the wide range of interdisciplinary topics, methods, and applications covered in this book engaging and useful.

The Physics of Semiconductor
Devices

Smart Systems and IoT:

Innovations in Computing

PRODUCTION TECHNOLOGY

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Federated Learning
Control System Design
**Designed Primarily For
Courses In Operational
Amplifier And Linear
Integrated Circuits For
Electrical, Electronic,
Instrumentation And
Computer Engineering And
Applied Science Students.
Includes Detailed Coverage Of
Fabrication Technology Of
Integrated Circuits. Basic
Principles Of Operational
Amplifier, Internal
Construction And Applications
Have Been Discussed.
Important Linear Ics Such As
555 Timer, 565 Phase-Locked
Loop, Linear Voltage
Regulator Ics 78/79 Xx And
723 Series D-A And A-D**

Converters Have Been Discussed In Individual Chapters. Each Topic Is Covered In Depth. Large Number Of Solved Problems, Review Questions And Experiments Are Given With Each Chapter For Better Understanding Of Text. Salient Features Of Second Edition * Additional Information Provided Wherever Necessary To Improve The Understanding Of Linear Ics. * Chapter 2 Has Been Thoroughly Revised. * Dc & Ac Analysis Of Differential Amplifier Has Been Discussed In Detail. * The Section On Current Mirrors Has Been Thoroughly Updated. * More Solved Examples, Pspice

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**Programs And Answers To
Selected Problems Have Been
Added.**

**Through previous editions,
Peter O'Neil has made
rigorous engineering
mathematics topics accessible
to thousands of students by
emphasizing visuals,
numerous examples, and
interesting mathematical
models. Advanced
Engineering Mathematics
features a greater number of
examples and problems and is
fine-tuned throughout to
improve the clear flow of
ideas. The computer plays a
more prominent role than
ever in generating computer
graphics used to display
concepts and problem sets,**

incorporating the use of leading software packages. Computational assistance, exercises and projects have been included to encourage students to make use of these computational tools. The content is organized into eight parts and covers a wide spectrum of topics including Ordinary Differential Equations, Vectors and Linear Algebra, Systems of Differential Equations and Qualitative Methods, Vector Analysis, Fourier Analysis, Orthogonal Expansions, and Wavelets, Partial Differential Equations, Complex Analysis, and Probability and Statistics. Important Notice: Media content referenced within the

product description or the product text may not be available in the ebook version.

The book is a comprehensive work on Properties of Matter which introduces the students to the fundamentals of the subject. It adopts a unique 'ab initio' approach to the presentation of matter- solids, liquids and gasses- with extensive usage of Calculus throughout the book. For each topic, the focus is on optimum blend of theory as well as practical application. Examples and extensive exercises solved with the logarithms reinforce the concepts and stimulate the desire among users to test

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**how far they have grasped
and imbibed the basic
principles. It primarily caters
to the undergraduate courses
offered in Indian universities.**

**Proceedings of ICICC 2020,
Volume 2**

**Engineering Mathematics
Proceedings of the
International Conference on
Paradigms of Computing,
Communication and Data
Sciences**

**Discrete Mathematics and
Applications**

*A groundbreaking and
comprehensive reference
that's been a bestseller since
1970, this new edition
provides a broad
mathematical survey and*

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covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

Proceedings of the International Workshop, Delhi, India, November 14-16, 1985

This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and

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*collaboration with
colleagues from the same
scientific community. The
book discusses the latest
developments in the field of
III-nitrides; materials &
devices, compound
semiconductors, VLSI
technology, optoelectronics,
sensors, photovoltaics,
crystal growth, epitaxy and
characterization, graphene
and other 2D materials and
organic semiconductors.
Space Dynamics and
Celestial Mechanics
Quantile Regression
International Conference on
Innovative Computing and*

*Communications
Fuzzy Topology
Proceedings of the
International Workshop,
Delhi, India, 14-16
November 1985*

Quantile regression is gradually emerging as a unified statistical methodology for estimating models of conditional quantile functions. By complementing the exclusive focus of classical least squares regression on the conditional mean, quantile regression offers a systematic strategy for examining how covariates influence the location, scale and shape of the entire response distribution. This monograph is the first comprehensive treatment of the

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subject, encompassing models that are linear and nonlinear, parametric and nonparametric. The author has devoted more than 25 years of research to this topic. The methods in the analysis are illustrated with a variety of applications from economics, biology, ecology and finance. The treatment will find its core audiences in econometrics, statistics, and applied mathematics in addition to the disciplines cited above.

This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology,

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Kurukshetra, India, during 1 – 3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in computation algorithm, communication and data sciences, intertwined with each other for efficiency.

Advanced Engineering
Mathematics Engineering
Mathematics Krishna Prakashan
Media Rectangular Dielectric
Resonator Antennas Theory and
Design Springer
Advances and Open Problems in
Federated Learning
Science Reporter

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An Introduction

Digital Design and Computer
Organisation

Elements of Properties of Matter

This book covers the theory and
mathematics needed to understand
the concepts in control system design.

Chapter 1 deals with compensation
network design. Nonlinear control
systems, including phase-plane
analysis and the Delta method are
presented in chapter 2. The analysis
and design aspects based on the state
variable approach are presented in
Chapter 3. The discrete time control
systems form the basis for the study of
digital control systems in Chapter 4,
covering the frequency response, root
locus analysis, and stability
considerations for discrete-time control
systems. The stability analysis based

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on the Lyapunov method is given in chapter 5. The appendices include two US government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Dept. of Energy).

Concepts in the text are supported by numerical examples. Features: □

Covers the theory and mathematics needed to understand the concepts in control system design □ Includes two U.S. government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Department of Energy)

Volume IVA is devoted to progress in optical component research and development. Topics include design of optical fiber for a variety of applications, plus new materials for fiber amplifiers, modulators, optical

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switches, light wave devices, lasers, and high bit-rate electronics. This volume is an excellent companion to Optical Fiber Telecommunications IVB: Systems and Impairments (March 2002, ISBN: 0-12-3951739). - Fourth in a respected and comprehensive series - Authoritative authors from a range of organizations - Suitable for active lightwave R&D designers, developers, purchasers, operators, students, and analysts - Lightwave components reviewed in Volume A -Lightwave systems and impairments reviewed in Volume B - Up-to-the minute coverage

This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College

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of Business Studies, University of Delhi, Delhi, India, on 21–23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Reinforcement Learning, second edition

Mathematical Foundation of Computer Science

DESIGN OF REINFORCED
CONCRETE STRUCTURES

Advanced Engineering Mathematics
A Textbook Of Applied Physics

**This book is a student guide
to the applications of**

differential and integral calculus to vectors. Such material is normally covered in the later years of an engineering or applied physical sciences degree course, or the first and second years of a mathematics degree course. The emphasis is on those features of the subject that will appeal to a user of mathematics, rather than the person who is concerned mainly with rigorous proofs. The aim is to assist the reader to acquire good proficiency in algebraic manipulation that can be used in critically

**assessing the results
obtained from using
graphics calculators and
algebraic software
packages.**

**This book provides a
comprehensive and self-
contained introduction to
federated learning, ranging
from the basic knowledge
and theories to various key
applications. Privacy and
incentive issues are the
focus of this book. It is
timely as federated learning
is becoming popular after
the release of the General
Data Protection Regulation
(GDPR). Since federated
learning aims to enable a**

machine model to be collaboratively trained without each party exposing private data to others. This setting adheres to regulatory requirements of data privacy protection such as GDPR. This book contains three main parts. Firstly, it introduces different privacy-preserving methods for protecting a federated learning model against different types of attacks such as data leakage and/or data poisoning. Secondly, the book presents incentive mechanisms which aim to encourage individuals to

participate in the federated learning ecosystems. Last but not least, this book also describes how federated learning can be applied in industry and business to address data silo and privacy-preserving problems. The book is intended for readers from both the academia and the industry, who would like to learn about federated learning, practice its implementation, and apply it in their own business. Readers are expected to have some basic understanding of linear algebra, calculus, and

neural network.

Additionally, domain knowledge in FinTech and marketing would be helpful.”

Designed primarily as a text for the undergraduate students of civil engineering, this compact and well-organized text presents all the basic topics of reinforced concrete design in a comprehensive manner. The text conforms to the limit states design method as given in the latest revision of Indian Code of Practice for Plain and Reinforced Concrete, IS: 456 (2000). This book

covers the applications of design concepts and provides a wealth of state-of-the-art information on design aspects of wide variety of reinforced concrete structures. However, the emphasis is on modern design approach. The text attempts to:

- Present simple, efficient and systematic procedures for evolving design of concrete structures.**
- Make available a large amount of field tested practical data in the appendices.**
- Provide time saving analysis and design aids in the form of**

tables and charts. • Cover a large number of worked-out practical design examples and problems in each chapter. • Emphasize on development of structural sense needed for proper detailing of steel for integrated action in various parts of the structure.

Besides students, practicing engineers and architects would find this text extremely useful.

**Civil Engineering Materials
Tensor Geometry
IAP Textbook of Vaccines
Solution Manual to
Engineering Mathematics
Theory and Design**

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Digital Design and Computer Organization introduces digital design as it applies to the creation of computer systems. It summarizes the tools of logic design and their mathematical basis, along with in depth coverage of combinational and sequential circuits. The book includes an accompanying CD that includes the majority of circuits highlighted in the text, delivering you hands-on experience in

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the simulation and observation of circuit functionality. These circuits were designed and tested with a user-friendly Electronics Workbench package (Multisim Textbook Edition) that enables your progression from truth tables onward to more complex designs. This volume differs from traditional digital design texts by providing a complete design of an AC-based CPU, allowing you to apply digital design

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directly to computer architecture. The book makes minimal reference to electrical properties and is vendor independent, allowing emphasis on the general design principles.

This book is intended to serve as a textbook of Applied Physics / Physics paper of the undergraduate students of B.E., B.Tech and B.Sc. Exhaustive treatment of topics in optics, mechanics, relativistic mechanics, laser, optical fibres

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and holography have been included. Physics is best learnt by conceptualization of the involved principles and to help the students conceptualize the involved principles, the text has been presented in an easy to understand manner. Large number of solved numericals have been included in the book to give a quantitative idea of the subject. Exercises and unsolved numericals have been given at the end of each chapter for

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practice. The book will also be useful for the students taking various competitive examinations.

Basic Electrical
Engineering
Engineering Mathematics
Volume Ii