
Pune University Engineering Syllabus

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Discrete Mathematics

Springer Science & Business
Media

Given the rapid advances in
the field, this book offers an up-

to-date introduction to nanomaterials and nanotechnology. Though condensed into a relatively small volume, it spans the whole range of multidisciplinary topics related to nanotechnology. Starting with the basic concepts of quantum mechanics and solid state physics, it presents both physical and chemical synthetic methods, as well as analytical techniques for studying nanostructures. The size-specific properties of nanomaterials, such as their thermal, mechanical, optical and magnetic characteristics, are discussed in detail. The book goes on to illustrate the

various applications of nanomaterials in electronics, optoelectronics, cosmetics, energy, textiles and the medical field and discusses the environmental impact of these technologies. Many new areas, materials and effects are then introduced, including spintronics, soft lithography, metamaterials, the lotus effect, the Gecko effect and graphene. The book also explains the functional principles of essential techniques, such as scanning tunneling microscopy (STM), atomic force microscopy (AFM), scanning near field optical microscopy (SNOM), Raman spectroscopy and

photoelectron microscopy. In closing, Chapter 14, 'Practicals', provides a helpful guide to setting up and conducting inexpensive nanotechnology experiments in teaching laboratories. *Information Retrieval and Natural Language Processing* Nirali Prakashan A Textbook of Electrical Technology (Vol. IV) Multicolor pictures have been added to enhance the content value and give to the students an idea of what he will be dealing in reality and to bridge the gap between theory and practice. A notable feature is the inclusion of chapter on Flip-Flops and related Devices as per latest development

in the subject. Latest tutorial problems and objective type questions specially for GATE have been included at relevant places.

Engineering Mathematics
Nirali Prakashan

This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and

graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

Head First Python IGI
Global
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.

Engineering
Mathematics-II McGraw-Hill Science,
Engineering &
Mathematics

1 Basic Concepts of
Structural Analysis 2
Slope And Deflection of
Beams 3 Deflection of
Beams And frames 4
Indeterminate Beams 5
Energy Method For
Displacement 6
Deflection of Trusses 7

Indeterminate Trusses 8
Influence Lines 9
Influence Line Diagrams
for Plane 10 Three-
Hinged Arches 11 Two-
Hinged Arches 12
Plastic Theory 13
Plastics Analysis
Theory of Machines PHI
Learning Pvt. Ltd.
Applications of NMR
Spectroscopy is a book
series devoted to
publishing the latest
advances in the applications
of nuclear magnetic
resonance (NMR)
spectroscopy in various
fields of organic chemistry,
biochemistry, health and

agriculture. The fifth volume of the series features several reviews focusing on NMR spectroscopic techniques for identifying natural and synthetic compounds (polymer and peptide characterization, GABA in tinnitus affected mice), medical diagnosis and therapy (gliomas) and food analysis. The spectroscopic methods highlighted in this volume include high resolution proton magnetic resonance spectroscopy and solid state NMR.

COMPUTER ORIENTED
NUMERICAL METHODS
Technical Publications

This second edition expands upon the solid, practical foundation established in the first edition of the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

ATOMIC AND MOLECULAR PHYSICS

Packt Publishing Ltd

1 Slope -deflection 2

Moment Distribution

method 3 Flexibility

Method 4 Stiffness Method

5 Finite Difference method

7 Approximate Analysis of

Multistoried Frames 6

Finite Element Method

Python Programming
New Age International
The book is a collection of papers presented at First Doctoral Symposium on Natural Computing Research (DSNCR 2020), held during 8 August 2020 in Pune, India. The book covers different topics of applied and natural computing methods having applications in physical sciences and engineering. The book focuses on computer

vision and applications, soft computing, security for Internet of Things, security in heterogeneous networks, signal processing, intelligent transportation system, VLSI design and embedded systems, privacy and confidentiality, big data and cloud computing, bioinformatics and systems biology, remote healthcare, software security, mobile and pervasive

computing, biometrics-based authentication, natural language processing, analysis and verification techniques, large scale networking, distributed systems, digital forensics, and human – computer interaction.

Techniques of Value Analysis and Engineering "O'Reilly Media, Inc." Engineering has been an aspect of life since the beginnings of human existence. The earliest practice of civil

engineering may have commenced between 4000 and 2000 BC in ancient Egypt, the Indus Valley civilization, and Mesopotamia (ancient Iraq) when humans started to abandon a nomadic existence, creating a need for the construction of shelter. During this time, transportation became increasingly important leading to the development of the wheel and sailing. Civil engineering is the application of physical and

scientific principles for solving the problems of society, and its history is intricately linked to advances in the understanding of physics and mathematics throughout history. Because civil engineering is a broad profession, including several specialized sub-disciplines, its history is linked to knowledge of structures, materials science, geography, geology, soils, hydrology, environmental science, project

management, and other fields. Throughout ancient and medieval history most architectural design and construction was carried out by artisans, such as stonemasons and carpenters, rising to the role of master builder. Knowledge was retained in guilds and seldom supplanted by advances. Structures, roads, and infrastructure that existed were repetitive, and increases in scale were incremental. The purpose of this textbook is to present an

introduction to the subject of Basics of Civil Engineering of Bachelor of Engineering (BE) Semester - I. The book contains the syllabus from basics of the subjects going into the intricacies of the subjects. Students are now required to solve minimum Four (4) Assignments based on the Syllabus. Each topic is followed by Assignment Questions which now forms the compulsory part of internal assessment. All the

concepts have been explained with relevant examples and diagrams to make it interesting for the readers. An attempt is made here by the experts of TMC to assist the students by way of providing Study text as per the curriculum with non - commercial considerations. We owe to many websites and their free contents; we would like to specially acknowledge contents of website [www. wikipedia. com](http://www.wikipedia.com) and various authors whose writings formed

the basis for this book. We acknowledge our thanks to them. At the end we would like to say that there is always a room for improvement in whatever we do. We would appreciate any suggestions regarding this study material from the readers so that the contents can be made more interesting and meaningful. Readers can email their queries and doubts to tmcnagpur@gmail.com. We shall be glad to help you immediately. Dr.

Mukul Burghate Author
English Studies in India
Sigma Press
This is a short text in linear algebra, intended for a one-term course. In the first chapter, Lang discusses the relation between the geometry and the algebra underlying the subject, and gives concrete examples of the notions which appear later in the book. He then starts with a discussion of linear equations, matrices and Gaussian elimination, and proceeds to discuss vector spaces, linear maps, scalar products, determinants, and eigenvalues. The book

contains a large number of exercises, some of the routine computational type, while others are conceptual. Engineering Three Syllabus Bentham Science Publishers Uses an integrated, scientists' approach to the principles regulating the synthesis, structure and physical characteristics of crystalline solids. Mathematical derivations are kept to a minimum. Covers electrical properties of metals and band semiconductors, superionic conductors,

ferrites and solid electrolytes. Features end-of-chapter problem sets.

Proceeding of First Doctoral Symposium on Natural Computing Research Springer Nature Fully updated for today's technologies and best practices, Information Security: Principles and Practices, Second Edition thoroughly covers all 10 domains of today's Information Security Common Body of Knowledge. Written by two of the world's most experienced IT security practitioners, it brings

together foundational knowledge that prepares readers for real-world environments, making it ideal for introductory courses in information security, and for anyone interested in entering the field. This edition addresses today's newest trends, from cloud and mobile security to BYOD and the latest compliance requirements. The authors present updated real-life case studies, review questions, and exercises throughout. Nirma University Law Journal IndraStra Global e-Journal

Hosting Services

This book is a concise and lucid introduction to computer oriented numerical methods with well-chosen graphical illustrations that give an insight into the mechanism of various methods. The book develops computational algorithms for solving non-linear algebraic equation, sets of linear equations, curve-fitting, integration, differentiation, and solving ordinary

differential equations.
OUTSTANDING
FEATURES •
Elementary
presentation of
numerical methods
using computers for
solving a variety of
problems for students
who have only basic
level knowledge of
mathematics. •
Geometrical
illustrations used to
explain how numerical
algorithms are evolved.
• Emphasis on
implementation of

numerical algorithm on
computers. • Detailed
discussion of IEEE
standard for
representing floating
point numbers. •
Algorithms derived and
presented using a
simple English based
structured language. •
Truncation and
rounding errors in
numerical calculations
explained. • Each
chapter starts with
learning goals and all
methods illustrated with
numerical examples. •

Appendix gives pointers
to open source libraries
for numerical
computation.
Learning Python
Pearson Education
Fundamentals of Data
Science is designed for
students, academicians
and practitioners with a
complete walkthrough
right from the
foundational
groundwork required to
outlining all the
concepts, techniques
and tools required to
understand Data

Science. Data Science is vast amounts of data by performing data an umbrella term for the the use of various analytics to writing non-traditional scientific methods, source code. All the techniques and algorithms, and concepts are discussed technologies that are processes Readers will in simple English to required to collect, learn the steps help the community to aggregate, process, and necessary to create the become Data Scientist gain insights from application with SQL, without much pre- massive datasets. This NoSQL, Python, R, requisite knowledge. book offers all the Tablue. This book Features : Simple processes, provides a stepwise strategies for methodologies, various approach to building developing statistical steps like data solutions to data models that analyze acquisition, pre- science applications data and detect process, mining, right from patterns, trends, and prediction, and understanding the relationships in data visualization tools for fundamentals, sets. Complete roadmap extracting insights from

approach with dedicated sections which includes Fundamentals, Methodology and Tools. Focussed approach for learning and practice various Data Science Tools with Sample code and examples for practice. Information is presented in an accessible way for students, researchers and academicians and professionals. Applications of NMR Spectroscopy Cambridge Scholars Publishing

Currently, informatics within the field of public health is a developing and growing industry. Clinical informatics are used in direct patient care by supplying medical practitioners with information that can be used to develop a care plan. Intelligent applications in clinical informatics facilitates with the technology-based solutions to analyze data or medical images and help clinicians to retrieve that information. Decision models aid with

making complex decisions especially in uncertain situations. The Handbook of Research on Applied Intelligence for Health and Clinical Informatics is a comprehensive reference book that focuses on the study of resources and methods for the management of healthcare infrastructure and information. This book provides insights on how applied intelligence with deep learning, experiential learning, and more will impact healthcare and clinical

information processing. The content explores the representation, processing, and communication of clinical information in natural and engineered systems. This book covers a range of topics including applied intelligence, medical imaging, telehealth, and decision support systems, and also looks at technologies and tools used in the detection and diagnosis of medical conditions such as cancers, diabetes, heart disease, lung disease, and

prenatal syndromes. It is an essential reference source for diagnosticians, medical professionals, imaging specialists, data specialists, IT consultants, medical technologists, academicians, researchers, industrial experts, scientists, and students. Systems Approach in Civil Engineering mukul burghate This book provides an essential overview of IoT, energy-efficient topology control

protocols, motivation, and challenges for topology control for Wireless Sensor Networks, and the scope of the research in the domain of IoT. Further, it discusses the different design issues of topology control and energy models for IoT applications, different types of simulators with their advantages and disadvantages. It also discusses extensive simulation results and

comparative analysis for algorithms, in wireless various algorithms. The key point of this book is to present a solution to minimize energy and extend the lifetime of IoT networks using optimization methods to improve the performance. Features: Describes various facets necessary for energy optimization in IoT domain. Covers all aspects to achieve energy optimization using latest technologies and

sensor networks. Presents various IoT and Topology Control Methods and protocols, various network models, and model simulation using MATLAB®. Reviews methods and results of optimization with Simulation Hardware architecture leading to prolonged life of IoT networks. First time introduces bio-inspired algorithms in the IoT domain for performance

optimization This book aims at Graduate Students, Researchers in Information Technology, Computer Science and Engineering, Electronics and Communication Engineering. Basics of Civil Engineering Miles Value Foundation
Want to learn the Python language without slogging your way through how-to manuals? With Head First Python, you 'll quickly

grasp Python ' s fundamentals, working with the built-in data structures and functions. Then you ' ll move on to building your very own webapp, exploring database management, exception handling, and data wrangling. If you ' re intrigued by what you can do with context managers, decorators, comprehensions, and generators, it ' s all here. This second edition is a complete learning experience that will help you become a bonafide

Python programmer in no time. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Python uses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed for the way your brain really works. New Horizons for

Human Factors in Design Springer Nature Discrete mathematics is a compulsory subject for undergraduate computer scientists. This new edition includes new chapters on statements and proof, logical framework, natural numbers and the integers and updated exercises from the previous edition. Information Security Laxmi Publications, Ltd. Turbo machines, in

mechanical engineering, describes machines that transfer energy between rotor and fluid, including turbines, pumps and compressors. While turbine transfers energy from fluid to rotor and compressor and a pump transfers energy from rotor to fluid. Turbo machine is a power or a head generating machine which employs the dynamic action of a rotating element, the

rotor; the action of the rotor changes the energy level of the continuously flowing fluid through the machine. The majority of turbo machines run at comparatively higher speeds without any mechanical problems and high volumetric efficiency. Turbo machines can be categorised on the basis of the nature of flow path through the passage of the rotor. The same fundamentals

are applicable to all turbo machines, certainly there are significant differences between these machines. In this book SI unit system is followed. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.