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□A Textbook of Engineering Mechanics□ is a must-buy for all students of engineering as it is a lucidly written textbook on the subject with crisp conceptual explanations aided with simple to understand examples. Important concepts such as Moments and their applications, Inertia, Motion (Laws, Harmony and Connected Bodies), Kinetics of Motion of Rotation as well as Work, Power and Energy are explained with ease for the learner to really grasp the subject in its entirety. A book which has seen, foreseen and incorporated changes in the subject for 50 years, it

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continues to be one of the most sought after texts by the students.

The 1st edition of book entitled "Design of Machine Elements" for IIIrd Year Diploma, Semester VI in Diploma in Mechanical Engineering Group as per the syllabus prescribed by SBTE. We have observed the students facing extreme difficulties in understanding the basic principles and fundamental concepts without adequate solved problems along with the text. To meet this basic requirement of students, sincere efforts have been made to present the subject matter with frequent use of figures and lots of numerical examples.

Instant Access to Civil Engineering Formulas Fully updated and packed with more than 500 new formulas, this book offers a single compilation of all essential civil engineering formulas

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and equations in one easy-to-use reference. Practical, accurate data is presented in USCS and SI units for maximum convenience. Follow the calculation procedures inside Civil Engineering Formulas, Second Edition, and get precise results with minimum time and effort. Each chapter is a quick reference to a well-defined topic, including: Beams and girders Columns Piles and piling Concrete structures Timber engineering Surveying Soils and earthwork Building structures Bridges and suspension cables Highways and roads Hydraulics, dams, and waterworks Power-generation wind turbines Stormwater Wastewater treatment Reinforced concrete Green buildings Environmental protection DBMS Lab Manual
A Textbook of Engineering Mechanics

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The Definite Integral

Paper-I

Tables of Coulomb Wave Functions

A superior primer on software testing and quality assurance, from integration to execution and automation This important new work fills the pressing need for a user-friendly text that aims to provide software engineers, software quality professionals, software developers, and students with the fundamental developments in testing theory and common testing practices. Software Testing and Quality Assurance: Theory and Practice equips readers with a

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solid understanding of:
**Practices that support the
production of quality software**
Software testing techniques
**Life-cycle models for
requirements, defects, test
cases, and test results**
**Process models for units,
integration, system, and
acceptance testing** **How to
build test teams, including
recruiting and retaining test
engineers** **Quality Models,
Capability Maturity Model,
Testing Maturity Model, and
Test Process Improvement
Model** **Expertly balancing
theory with practice, and
complemented with an**

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abundance of pedagogical tools, including test questions, examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an ideal introductory text for courses in software testing, quality assurance, and software engineering.

**Applied Engineering Analysis
Tai-Ran Hsu, San Jose State
University, USA A resource
book applying mathematics to
solve engineering problems
Applied Engineering Analysis
is a concise textbook which
demonstrates how to apply**

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mathematics to solve engineering problems. It begins with an overview of engineering analysis and an introduction to mathematical modeling, followed by vector calculus, matrices and linear algebra, and applications of first and second order differential equations. Fourier series and Laplace transform are also covered, along with partial differential equations, numerical solutions to nonlinear and differential equations and an introduction to finite element analysis. The book also covers statistics with applications to design

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and statistical process controls. Drawing on the author's extensive industry and teaching experience, spanning 40 years, the book takes a pedagogical approach and includes examples, case studies and end of chapter problems. It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors. Key features: Strong emphasis on deriving equations, not just solving given equations, for the solution of engineering problems. Examples and problems of a practical nature

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with illustrations to enhance student's self-learning. Numerical methods and techniques, including finite element analysis. Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control (SPC). Applied Engineering Analysis is a resource book for engineering students and professionals to learn how to apply the mathematics experience and skills that they have already acquired to their engineering profession for innovation, problem solving, and decision making.

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This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple, lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way. The book comprise five chapters(excluding basic concepts)in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th.Semester Mechanical, Production, Automobile Engineering and 2nd semester Mechanical disciplines of Anna University.

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Fabric Testing

**AUTOMOBILE COMPONENT
DESIGN (22558)**

DESIGN OF MACHINE

**ELEMENTS (Subject Code
MEC 604)**

**Basic Electrical Engineering
Theory and Practice**

As per II PUC Basic Mathematics syllabus of Karnataka. Provides an introduction to various basic mathematical techniques and the situations where these could be usefully employed. The language is simple and the material is self-explanatory with a large number of illustrations. Assists the reader in gaining proficiency to solve diverse variety of problems.

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About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou.

This book introduces the Special Issue

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entitled “ Applications of Internet of Things ” , of ISPRS International Journal of Geo-Information. Topics covered in this issue include three main parts: (I) intelligent transportation systems (ITSs), (II) location-based services (LBSs), and (III) sensing techniques and applications. Three papers on ITSs are as follows: (1) “ Vehicle positioning and speed estimation based on cellular network signals for urban roads, ” by Lai and Kuo; (2) “ A method for traffic congestion clustering judgment based on grey relational analysis, ” by Zhang et al.; and (3) “ Smartphone-based pedestrian ’ s avoidance behavior recognition towards opportunistic

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road anomaly detection, ” by Ishikawa and Fujinami. Three papers on LBSs are as follows: (1) “ A high-efficiency method of mobile positioning based on commercial vehicle operation data, ” by Chen et al.; (2) “ Efficient location privacy-preserving k-anonymity method based on the credible chain, ” by Wang et al.; and (3) “ Proximity-based asynchronous messaging platform for location-based Internet of things service, ” by Gon Jo et al. Two papers on sensing techniques and applications are as follows: (1) “ Detection of electronic anklet wearers ’ groupings throughout telematics monitoring, ” by Machado et al.; and (2) “ Camera

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coverage estimation based on
multistage grid subdivision, ” by
Wang et al.

A Quick Introduction for Scientists
and Engineers

10 Last Years Solved Papers (HSC) -
Science

Sample Question Papers for ISC
Science Stream Class 12 Semester I
Exam 2021

Discrete Mathematics

**Appropriate for one- or two-
semester Advanced
Engineering Mathematics
courses in departments of
Mathematics and Engineering.
This clear, pedagogically
rich book develops a strong
understanding of the**

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mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement. This book highlights the latest advances in

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engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods and algorithms most relevant for applications in modern technologies and engineering. It addresses mathematical methods of algebra, applied matrix analysis, operator analysis, probability theory and stochastic processes, geometry and computational methods in network analysis, data classification, ranking and optimisation. The individual chapters cover both theory and applications, and include a wealth of figures, schemes,

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algorithms, tables and results of data analysis and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and to further compare and analyse the methods and results discussed. The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics

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organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students in applied

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mathematics, as well as in the areas of applications of mathematics considered in the book.

This book is based on a course Graph theory. We write this book as per the revised syllabus of F.Y. B.Sc.(Computer Science) Mathematics, revised by Savitribai Phule Pune University, Pune, implemented from June 2019. Graph theory is the most useful subject in all branches of mathematics and it is used extensively in applied mathematics and engineering. Graphs theory is the study of graphs, which are mathematical structures used to model

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pairwise relations between objects. It is a bridge connecting mathematics with various branches of computer science. We study how problems in almost every conceivable discipline can be solved using graph models.

Volume 1

Advanced Engineering

Mathematics, 22e

Fundamental of Chemical

Engineering

LINEAR ALGEBRA (2 Credits)

Mathematics

The Scientist and Engineer's

Guide to Digital Signal

Processing

"Advanced Engineering

Mathematics" is written

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for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult

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concepts.

This manual is specially written for Students who are interested in understanding Structured Query Language and PL-SQL concepts in the Computer Engineering and Information technology field and wants to gain enhance knowledge about power of SQL Language in Relational Database Management System Development. The manual covers practical point of view in all aspects of SQL and PL/SQL including DDL, DML, DCL

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sublanguages, also there are practices for Views, Group by, Having Clause. All PL-SQL concepts like Condition and Loop Structures, Functions and Procedures, Cursor, Triggers, Locks are illustrated using best examples

*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*

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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.

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*Handbook of Engineering
Mathematics*

*Maharashtra Board Class
12 for 2020 Examination*

*Lessons in Electric
Circuits: An*

*Encyclopedic Text &
Reference Guide (6*

Volumes Set)

*ACCA - F4 Corporate &
Business Law (Russia)*

*(for the December 2017
and June 2018 exams)*

*Software Testing and
Quality Assurance*

**Electrical power
transmission and
distribution are an
important area of**

electrical engineering. This book on electrical power transmission and distribution takes into account the layout, design and manufacture of components that form an electrical grid. There has been rapid progress in this field and its applications are finding their way across multiple industries. Contents included in this book aim to facilitate a comprehensive knowledge in the fields of electrical engineering and efficient electricity

generation and consumption. This book is a vital tool for all researching or studying electricity transmission as it gives incredible insights into emerging trends and concepts. The readers would gain knowledge that would broaden their perspective about this field.

The textile industry is becoming an increasingly competitive environment. Differentiating products by quality is particularly important. Testing can be performed both to

improve product quality and achieve compliance to international, regional or retailer specific standards. Fabric testing provides a comprehensive review of the tests available for fabrics. The book begins with introductory chapters which discuss the scope, importance and statistical analysis of fabric testing. The book then reviews various types of fabric tests such as fabric composition testing, physical and mechanical tests, fabric

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chemical testing, how to test appearance, permeability, comfort and flammability, as well as dyeing and colouring tests and key issues in testing textile samples. With its distinguished editor and international team of contributors Fabric testing is a valuable resource for designers, technologists, quality inspectors and testing institutes in the textile industry. It is also relevant for academics and students within the textile field. Reviews

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various types of fabric tests including fabric composition and fabric chemical testing
Discusses the scope, significance and statistical analysis of fabric testing
Assesses the importance of fabric testing to both product quality and industry standard compliance
Seifert and Threlfall, A Textbook of Topology
Electrical Power Transmission and Distribution
Engineering Mathematics Vol. One 4Th Ed.

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**Matrices in Engineering
Problems
Algebraic, Stochastic and
Analysis Structures for
Networks, Data
Classification and
Optimization
Engineering Materials
and Metallurgy**

Publisher's Monthly Discrete
Mathematics An Open
Introduction

This Thoroughly Revised Edition
Is Designed For The Core
Course On The Subject And
Presents A Detailed Yet Simple
Treatment Of The Fundamental
Principles Involved In
Engineering Mathematics. All

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Basic Concepts Have Been Comprehensively Explained And Illustrated Through A Variety Of Solved Examples. Instead Of Too Much Mathematically Involved Illustrations, A Step-By-Step Approach Has Been Followed Throughout The Book. Unsolved Problems, Objective And Review Questions Along With Short Answer Questions Have Been Also Included For A Thorough Grasp Of The Subject. Graded Problems Have Been Included From Different Examinations. The Book Would Serve As An Excellent Text For Undergraduate Engineering And Diploma Students Of All

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Disciplines. Amie Candidates Would Also Find It Very Useful. The Topics Given In This Book Covers The Syllabuses Of Various Universities And Institutions E.G., Various Nit S, Jntu, Bit S Etc.

This book is written strictly according to the new revised syllabus of Savitribai Phule Pune University to be implemented from June 2019. We have taken utmost care to present the matter systematically and with proper flow of mathematical concepts. We begin the Chapter by Introduction and at the end the Summary of the Chapter is provided. We have added one

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significant feature: "Think Over It" in this new edition.

Selected Papers from the 2011
International Conference on
Chemical Engineering and
Advanced Materials (CEAM
2011) 28-30 May, 2011,
Changsha, China

Engineering Mathematics II
Table of the Gamma Function for
Complex Arguments
Applied Engineering Analysis
Advanced Engineering
Mathematics

This book is intended as an
undergraduate text introducing
matrix methods as they relate to
engineering problems. It begins with
the fundamentals of mathematics of

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matrices and determinants. Matrix inversion is discussed, with an introduction of the well known reduction methods. Equation sets are viewed as vector transformations, and the conditions of their solvability are explored. Orthogonal matrices are introduced with examples showing application to many problems requiring three dimensional thinking. The angular velocity matrix is shown to emerge from the differentiation of the 3-D orthogonal matrix, leading to the discussion of particle and rigid body dynamics. The book continues with the eigenvalue problem and its application to multi-variable vibrations. Because the eigenvalue

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problem requires some operations with polynomials, a separate discussion of these is given in an appendix. The example of the vibrating string is given with a comparison of the matrix analysis to the continuous solution. Table of Contents: Matrix Fundamentals / Determinants / Matrix Inversion / Linear Simultaneous Equation Sets / Orthogonal Transforms / Matrix Eigenvalue Analysis / Matrix Analysis of Vibrating Systems 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

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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

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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

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electronic version of the text, visit the book's website at discrete.openmathbooks.org

Becker's F4 Corporate & Business Law (Russia) Revision Essentials Handbook is an A5 size Handbook designed as a 'quick-glance' revision tool. It includes: ACCA syllabus aim and main capabilities, core topics checklist, summary of essential facts and theory, further reading, relevant articles, comprehensive analysis of past examinations, examiners' feedback for the last exams session and exam techniques.

GRAPH THEORY

Applications of Internet of Things

PETROLEUM AND

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**PETROCHEMICAL
TECHNOLOGY (22611)**

Civil Engineering Formulas