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Engineering Mathematics 2 Books Nirali Prakashan

This updated edition of Gesser's classic textbook has undergone a

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full revision and now has the latest material, including new chapters on semiconductors and nanotechnology. It includes a supplementary laboratory section with stepwise experimental protocols.

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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

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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

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make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou.

This textbook commences with a brief outline of development of real

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numbers, their expression as infinite decimals and their representation by points along a line. While the first part of the textbook is analytical, the latter part deals with the geometrical applications of the subject.

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Numerous examples and exercises have been provided to support student's understanding. This textbook has been designed to meet the requirements of undergraduate students of BA and BSc courses.

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S Chand Higher Engineering
Mathematics

Vedic Mathematics Made Easy

Algebraic, Stochastic and Analysis

Structures for Networks, Data

Classification and Optimization

Introduction to Engineering

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Mathematics - II (MMTU,GBTU)
For Engineering students &
also useful for
competitive Examination.
This book has been
thoroughly revised
according to the New

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Syllabus of Uttar Pradesh
Technical University
(UPTU), Lucknow. [For
B.E. / B.Tech. / B.Arch.
Students for second
semester of all
Engineering Colleges of

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Uttar Pradesh Technical
University (UPTU). Lucknow

]

This book is based on a
course Calculus-II. The
purpose of this text book
is to provide a rigorous

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treatment of the
foundations of differential
calculus. We write this
book as per the revised
syllabus of F.Y. B.Sc.
Mathematics, revised by
Savitribai Phule Pune

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University, Pune,
implemented from June
2019. Calculus is the most
useful subject in all of
mathematics and it is used
extensively in applied
mathematics and

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engineering.

Engineering Mathematics
III

Engineering Mathematics -
II

Basic Engineering
Mathematics

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Engineering Physics

Mathematical Statistics

Unit I - 1 linear Differential
Equations With Constant
Coefficients 2 Simultaneous
Linear Differential Equations,
Symmetric Simultaneous

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D.E. And Applications Unit II
-3 Laplace And Fourier
Transform 4 Inverse Laplace
Transform Unit III - 5 Fourier
transform 6 The Z Transform
Unit IV- 7 Vector Algebra 8
Vector Differentiation Unit V

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- Vector Integration 10

Applications of vectors to
Electromagnetic Fields Unit

VI- 11 Complex

Differentiation 12 Complex

Integration And Conformal

Mapping Model Question

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paper- Online Examination
Model Question paper
Theory Examination
This book will aid the
chemical engineer to carry
out chemical process
engineering in a very

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practical way. The process engineer can use the excel based calculation templates effectively to do correct and proper process design. Chemical engineering is a very vast and complex field.

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This book aims to simplify the process engineering design. Design of a chemical plant involves one being adept in technical aspects of process engineering. The book aims at making the

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chemical engineer proficient
in the art of process design.
Included are chemical
engineering basics on
simulation, stoichiometry,
fluid property calculation,
dimensionless numbers,

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thermodynamics and on
chemical engineering
equipment like pump,
compressor, steam turbine,
gas turbine, flare, motor,
fired heater, incinerator,
heat exchanger, distillation

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column, fractionation
column, absorber, stripper,
packed column, solar
evaporation pond, separator.
Utility design of nitrogen,
compressed air, water,
effluent treatment, steam,

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condensate, desalination,
fuel selection is covered.
Many chemical engineering
calculations have been
included. Special process
items like flame arrestor,
demister, feed device,

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pressure reducing and desuperheating station (PRDS), vortex breaker, electric heater, manual valve have been covered. Process engineering design criteria, process control, material of

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construction, specialized process studies, safety studies, precommissioning and commissioning have been covered. Project engineer will also benefit from information provided on

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types of project (EPC, EPCM,
Cost + Fee, etc) as well as
interdisciplinary interaction
between various engineering
disciplines i.e. process,
piping, mechanical,
instrumentation, electrical,

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civil and THSE. Process engineering documentation like process design basis, process philosophies, process flow diagram (PFD), piping and instrumentation diagram (P&ID), block flow

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diagram (BFD), DP-DT
diagram, material selection
diagram (MSD), line list,
summaries like utility
summary, effluent and
emission summary, tie in
summary and flare relief

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load summary have been covered with blank templates. Excerpts from few chapters have been provided.

Unit 1: Interference,
Diffraction and Its

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Engineering Applications,
Unit 2: Sound Engineering,
Unit 3: Polarization And
Laser, Unit 4: Solid State
Physics, Unit 5: Wave
Mechanics, Unit 6:
Superconductivity And Physics

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Of Na

Problems and Solutions in
Higher Engg. Math Vol-III
Engineering Mathematics-i
GRAPH THEORY

Applied Chemistry and
Chemical Engineering,

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Volume 3

Discrete Mathematics

C source code, algorithms and applications for a wide range of valuable scientific and engineering mathematical functions. Each function is discussed in detail with

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algorithms, applications, and key referneces. Includes a separate 3 1/2" disk.

This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models,

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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

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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

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applications, and include a wealth of figures, schemes, 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

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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

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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 organised by the

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Research Environment in
Mathematics and Applied
Mathematics at M ä lardalen
University from autumn 2014 to
autumn 2015: the International
Workshop on Engineering
Mathematics for Electromagnetics

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and Health Technology; the
International Workshop on
Engineering Mathematics, Algebra,
Analysis and Electromagnetics; and
the 1st Swedish-Estonian
International Workshop on
Engineering Mathematics, Algebra,

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Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics, as well as in the areas of applications of mathematics considered in the

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book.

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.

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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.

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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,

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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

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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

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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
Interdisciplinary Approaches to

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Theory and Modeling with
Applications

Engineering Mathematics II

TEXTBOOK OF FINITE ELEMENT
ANALYSIS

Graph Theory with Applications to
Engineering and Computer Science

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A Textbook of Engineering
Mathematics (For First Year ,Anna
University)

***Because of its inherent
simplicity, graph theory has
a wide range of applications
in engineering, and in***

physical sciences. It has of course uses in social sciences, in linguistics and in numerous other areas. In fact, a graph can be used to represent almost any physical situation involving

discrete objects and the relationship among them. Now with the solutions to engineering and other problems becoming so complex leading to larger graphs, it is virtually

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***difficult to analyze without
the use of computers. This
book is recommended in IIT
Kharagpur, West Bengal for
B.Tech Computer Science,
NIT Arunachal Pradesh, NIT
Nagaland, NIT Agartala, NIT***

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***Silchar, Gauhati University,
Dibrugarh University, North
Eastern Regional Institute of
Management, Assam
Engineering College, West
Bengal University of
Technology (WBUT) for***

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***B.Tech, M.Tech Computer
Science, University of
Burdwan, West Bengal for
B.Tech. Computer Science,
Jadavpur University, West
Bengal for M.Sc. Computer
Science, Kalyani College of***

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***Engineering, West Bengal
for B.Tech. Computer
Science. Key Features: This
book provides a rigorous yet
informal treatment of graph
theory with an emphasis on
computational aspects of***

graph theory and graph-theoretic algorithms.

Numerous applications to actual engineering problems are incorporated with software design and optimization topics.

**1 Linear differential
equations with constant
coefficients 2 Simultaneous
linear Differential Equations
3 Applications of Differential
Equations 4 System of linear
equations 5 Numerical**

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***solution of ordinary
differential equations 6
Statistics correlation and
regression 7 Probability and
probability distributions 8
Vector algebra 9 Vector
differentiation 10 Vector***

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***integration 11 Application of
vectors to fluid mechanics***

***12 Application of partial
differential equations***

***Engineering Mathematics-
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Mathematics - II
Engineering
Mathematics-II
New Age
International

A Textbook Of Engineering
Mathematics-I : (As Per The
New Syllabus, B.Tech. I Year
Of U.P. Technical University)

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***A Text Book of Engineering
Mathematics
C Mathematical Function
Handbook
Mihir's Handbook of
Chemical Process
Engineering (Excerpts)***

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APPLIED MATHEMATICS - II

Studying engineering, whether it is mechanical, electrical or civil relies heavily on an understanding of mathematics. This new textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them to solve real-life engineering problems. It deliberately starts

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at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required. Students who have not studied mathematics for some time will find this an excellent refresher. Each chapter starts with the basics before gently increasing in complexity. A full outline of essential

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definitions, formulae, laws and procedures are introduced before real world situations, practicals and problem solving demonstrate how the theory is applied. Focusing on learning through practice, it contains examples, supported by 1,600 worked problems and 3,000 further problems contained within exercises throughout the

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text. In addition, 34 revision tests are included at regular intervals. An interactive companion website is also provided containing 2,750 further problems with worked solutions and instructor materials. This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning,

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high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine

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learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of

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random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and

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1 Linear Differential Equation 2

Simultaneous Linear Differential Equations,

Symmetrical Simultaneous D e and

Applications of Differential Equations 3

Fourier Transform 4 The Z Transform 5

Interpolation, numerical Diffrentiation

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*and integration 6 Numerical Solution of
ordinary Differential Equations 7 vector
Algebra 8 Vector Differentiation 9 Vector
Integration 10 Applications of vectors to
Electromagnetic Fields 11 Complex
Differentiation 12 Complex Integration and
Conformal Mapping Model Question Paper:
online Examination (Phase I & II) Model*

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An Open Introduction

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*(for Students of Life Sciences and Chemical
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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

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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

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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

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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

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the teaching community.

This book aims at providing a complete coverage of the needs of First Year students as per S.B.T.E's revised syllabus. The entire revised syllabus has been covered keeping in view the non-availability of the complete subject matter through a

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single source. The difficult articles have been explained in a simple language providing, wherever necessary, neat and well explained diagrams so that even an average student may be able to follow it independently. A sufficient number of solved examples and problems with

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Formulae specifying symbol meaning are enlisted before solving the examples.

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coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

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Understanding Engineering

Mathematics

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minimum, with the
emphasis firmly placed***

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***on problem-solving skills,
making this a thoroughly
practical introduction to
the advanced engineering
mathematics that
students need to master.
The extensive and***

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makes this an ideal text
for upper-level vocational
courses and for
undergraduate degree
courses. It is also
supported by a fully***

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***updated companion
website with resources
for both students and
lecturers. It has full
solutions to all 2,000
further questions
contained in the 277***

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practice exercises.

***This graduate textbook
covers topics in
statistical theory
essential for graduate
students preparing for
work on a Ph.D. degree in***

statistics. This new edition has been revised and updated and in this fourth printing, errors have been ironed out. The first chapter provides a quick overview of

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***concepts and results in
measure-theoretic
probability theory that
are useful in statistics.
The second chapter
introduces some
fundamental concepts in***

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***statistical decision theory
and inference.***

***Subsequent chapters
contain detailed studies
on some important
topics: unbiased
estimation, parametric***

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***estimation,
nonparametric
estimation, hypothesis
testing, and confidence
sets. A large number of
exercises in each chapter
provide not only practice***

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***problems for students,
but also many additional
results.***

***With its broad coverage
of methodology, this
comprehensive book is a
useful learning and***

***reference tool for those
in applied sciences where
analysis and research of
time series is useful. Its
plentiful examples show
the operational details
and purpose of a variety***

of univariate and multivariate time series methods. Numerous figures, tables and real-life time series data sets illustrate the models and methods useful for

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analyzing, modeling, and forecasting data collected sequentially in time. The text also offers a balanced treatment between theory and applications. Time Series

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***Analysis is a thorough
introduction to both time-
domain and frequency-
domain analyses of
univariate and
multivariate time series
methods, with coverage***

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***of the most recently
developed techniques in
the field.***

***ENGINEERING PHYSICS-II
(BASIC PHYSICS)***

***Engineering Mathematics
2***

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***Time Series Analysis
Univariate and
Multivariate Methods
Fundamentals of
Electrical Engineering I
A Textbook of
Engineering Mathematics***

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***(PTU, Jalandhar) Sem-
III/IV***

Understanding mathematical modeling is fundamental in chemical engineering. This book reviews, introduces, and develops the mathematical models that are

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most frequently encountered in sophisticated chemical engineering domains. The volume provides a collection of models illustrating the power and richness of the mathematical sciences in supplying insight into the operation of

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important real-world systems. It fills a gap within modeling texts, focusing on applications across a broad range of disciplines. The first part of the book discusses the general components of the modeling process and highlights the potential

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of modeling in the production of nanofibers. These chapters discuss the general components of the modeling process and the evolutionary nature of successful model building in the electrospinning process.

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Electrospinning is the most versatile technique for the preparation of continuous nanofibers obtained from numerous materials. This section of book summarizes the state-of-the art in electrospinning as well as updates on theoretical aspects and

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applications. Part 2 of the book presents a selection of special topics on issues in applied chemistry and chemical engineering, including nanocomposite coating processes by electrocodeposition method, entropic factors conformational

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interactions, and the application of artificial neural network and meta-heuristic algorithms. This volume covers a wide range of topics in mathematical modeling, computational science, and applied mathematics. It presents a wealth of

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new results in the development of modeling theories and methods, advancing diverse areas of applications and promoting interdisciplinary interactions between mathematicians, scientists, engineers and representatives from

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other disciplines.

Engineering Mathematics-I

This is the first book of its kind,
which contains the complete
syllabus of second semester
prescribed by Amity University,
Noida (UP). The principal goal of

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this book is to provide the reader with a thorough knowledge of fundamental concepts and methods of Applied Mathematics used in different engineering disciplines. This book containing a large number of solved exercise from question

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papers of examinations held by various universities have been attached and solved in this book.

Contents: Linear Algebra and Matrices; Complex Analysis; Vector Calculus; Probability and Statistics; Tables; etc.

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Engineering Mathematics-II
Higher Engineering Mathematics
A Textbook for Engineers and
Technologists

This book is based on a course Graph
theory. We write this book as per the
revised syllabus of F.Y. B.Sc.(Computer

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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

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are mathematical structures used to model 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.

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Engineering Mathematics-III has been mapped to the syllabus of the third-semester mathematics paper taught to the students of electrical engineering, electrical and electronics engineering and electronics and communication engineering in Rajasthan Technical University, Kota. The book, a balanced

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mix of theory and solved problems, focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. The last three years' solved question papers have been included for the benefit of the

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students.

A Simplified Approach For Beginners &
Can you multiply 231072 by 110649
and get the answer in just a single
line? Can you find the cube root of
262144 or 704969 in two seconds?
Can you predict the birth-date of a
person without him telling you? Can

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you predict how much money a person has without him telling you? Can you check the final answer without solving the question? Or, in a special case, get the final answer without looking at the question? Can you solve squares, square roots, cube-roots and other problems mentally? All

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this and a lot more is possible with the techniques of Vedic Mathematics described in this book. The techniques are useful for students, professionals and businessmen. The techniques of Vedic Mathematics have helped millions of students all over the world get rid of their fear of numbers and

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improve their scores in quantitative subjects. Primary and secondary school students have found the Vedic mathematics approach very exciting. Those giving competitive exams like MBA, MCA, CET, UPSC, GRE, GMAT etc. have asserted that Vedic Mathematics has helped them crack

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the entrance tests of these exams.