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Mathematical Foundations of Information Theory

A Textbook of B.Sc. Mathematics Solid Geometry

A Textbook of B.Sc. Mathematics (Real Analysis) (For 2nd Year, 1st Semester of Telangana Universities)

Advanced Calculus

Fundamentals of Mathematical Statistics

Second Edition

Revised

A Textbook of B.Sc. Mathematics (Differential Calculus) (For 1st Year, 1st Semester of Telangana Universities)

Introduction to Real Analysis

Calculus

A Textbook of B.Sc. Mathematics (Semester I) Differential Equations - Andhra Pradesh

An Elementary Textbook for Students of Mathematics, Engineering, and the Sciences

Basic Topology

Fundamentals of Mathematics \

Mathematics for Physics

A Textbook of B.Sc. Mathematics Differential Equations

Bsc 1st Year Maths Book

OMB No. 6454203071958 edited by

PAMELA MERCER

GRAPH THEORY Tata McGraw-Hill Education

"This accessible approach to set theory for upper-level undergraduates poses rigorous but simple arguments. Each definition is accompanied by commentary that motivates and explains new concepts. A historical introduction is followed by discussions of classes and sets, functions, natural and cardinal numbers, the arithmetic of ordinal numbers, and related topics. 1971 edition with new material by the author"--

PHYSICS FOR DEGREE STUDENTS B.SC SECOND YEAR

S. Chand Publishing

Using an extremely clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents challenging math concepts as clearly as possible. The real number system. Differential calculus of functions of one variable. Riemann integral functions of one variable. Integral calculus of real-valued functions. Metric Spaces. For those who want to gain an understanding of mathematical analysis and challenging mathematical concepts.

Mathematical Foundations of Information Theory Springer Science & Business Media

Skillfully organized introductory text examines origin of differential equations, then defines basic terms and outlines the general solution of a differential equation. Subsequent sections deal with integrating factors; dilution and accretion problems; linearization of first order systems; Laplace Transforms; Newton's Interpolation Formulas, more.

A TEXTBOOK OF B.SC. MATHEMATICS SOLID GEOMETRY

Springer Science & Business Media

This Textbook of B.Sc. Mathematics for the students studying second year in all universities of Andhra Pradesh was first published in the year 1988 and has undergone several editions and many reprints. The revised syllabus is being adopted by all the universities in Andhra Pradesh, following Common Core model curriculum from the academic year 2015 - 2016 based on CBCS (Choice Based Credit System). This book strictly covers the new curriculum for Semester III (2nd year, 1st semester).

A Textbook of B.Sc. Mathematics (Real Analysis) (For 2nd Year, 1st Semester of Telangana Universities) S. Chand Publishing

An engagingly-written account of mathematical tools and ideas, this book provides a graduate-level introduction to the mathematics used in research in physics. The first half of the book focuses on the traditional mathematical methods of physics - differential and integral equations, Fourier series and the calculus of variations. The second half contains an introduction to more advanced subjects, including differential geometry, topology and complex variables. The authors' exposition avoids excess rigor whilst explaining subtle but important points often glossed over in more elementary

texts. The topics are illustrated at every stage by carefully chosen examples, exercises and problems drawn from realistic physics settings. These make it useful both as a textbook in advanced courses and for self-study. Password-protected solutions to the exercises are available to instructors at www.cambridge.org/9780521854030.

Advanced Calculus Courier Corporation

Mathematics-I for the paper BSC-105 of the latest AICTE syllabus has been written for the first semester engineering students of Indian universities. Paper BSC-105 is exclusively for CS&E students. Keeping in mind that the students are at the threshold of a completely new domain, the book has been planned with utmost care in the exposition of concepts, choice of illustrative examples, and also in sequencing of topics. The language is simple, yet accurate. A large number of worked-out problems have been included to familiarize the students with the techniques to solving them, and to instill confidence. Authors' long experience of teaching various grades of students has helped in laying proper emphasis on various techniques of solving difficult problems.

FUNDAMENTALS OF MATHEMATICAL STATISTICS

S. Chand Publishing

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Second Edition S. Chand Publishing

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

Revised World Scientific Publishing Company

This Textbook of B.Sc Mathematics is for the students studying Third year First semester in all universities of Telangana State. The revised syllabus is being adopted by all the universities in Telangana State, following Common Core model curriculum from the academic year 2016 - 2017 based on CBCS (Choice Based Credit System). This book strictly covers the new curriculum for Semester V (3rd year, 1st semester-Elective). Solutions are provided for the questions of Practical Question Bank. Key for the exercise problems appended at the end.

A Textbook of B.Sc. Mathematics (Differential Calculus) (For 1st Year, 1st Semester of Telangana Universities) S. Chand Publishing For B.Sc I yr students as per the new syllabus of UGC curriculum for all Indian Universities. The present book has two sections. Section I covers 1 which includes chapters on Mechanics, oscillations and Properties of Matter. Section II covers course 2 which includes chapters on Electricity, Magnetism and Electromagnetic theory.

INTRODUCTION TO REAL ANALYSIS

S. Chand Publishing

"The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.

CALCULUS

Prentice Hall

First comprehensive introduction to information theory explores the work of Shannon, McMillan, Feinstein, and Khinchin. Topics include the entropy concept in probability theory, fundamental theorems, and other subjects. 1957 edition.

A Textbook of B.Sc. Mathematics (Semester I) Differential Equations - Andhra Pradesh Pearson Education India

This textbook commences with a brief outline of development of real 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. 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.

An Elementary Textbook for Students of Mathematics, Engineering, and the Sciences Courier Corporation

Algebra >Functions And Relations >Congruence Of Integers >Some Special Types Of Matrices >Elementary Operations And Inverse Of A Matrix >Linear Dependence Of Vectors >Rank Of A Matrix >Linear Equations >Characteristic Roots Of Vectors >Theory Of Equations

Basic Topology S. Chand Publishing

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A Textbook of B.Sc. Mathematics

FUNDAMENTALS OF MATHEMATICS \

Vikas Publishing House

An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

MATHEMATICS FOR PHYSICS

S. Chand Publishing

Mathematics for Degree Students (For B.Sc. First Year)S. Chand Publishing

A TEXTBOOK OF B.Sc. MATHEMATICS DIFFERENTIAL EQUATIONS

Pearson Education India

Section I Relativity Section II Quantum Mechanics Section III Atomic Physics Section IV Molecular Physics Section V Nuclear Physics Section VI Solid State Physics Section VII Solid State Devices Section VIII Electronics Index

A TEXTBOOK OF B.Sc. MATHEMATICS

Vikas Publishing House

Mathematics for Degree Students B.Sc.IIIrd Yr

Real Mathematical Analysis Springer Science & Business Media

This elementary presentation exposes readers to both the process of rigor and the rewards inherent in taking an axiomatic approach to the study of functions of a real variable. The aim is to challenge and improve mathematical intuition rather than to verify it. The philosophy of this book is to focus attention on questions which give analysis its inherent fascination. Each chapter begins with the discussion of some motivating examples and concludes with a series of questions.