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this edition is an improvement on the earlier edition made with some topics have been updated and inclusion of previous question paper problems at appropriate places and previous gate questions at the end of each chapter for the benefit of the students the treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book are meant to be understood with a minimum effort on the part of the reader

mathematics I is included as a paper for the first year diploma program syllabus of this book is strictly aligned as per model curriculum of aicte and academic content is combined with the concept of outcome based education book cover five units trigonometry functions and limit differential calculus complex numbers and partial fraction permutation and combination and binomial theorem in every unit each topic is written in easy and lucid manner a set of exercise at the end of each unit is clubbed to test the student s comprehension some salient features of the book content of the book aligned with the mapping of course outcomes programs outcomes and unit outcomes book provides lots of real world applications interesting facts qr code for e resources mini projects curiosity topics sample specification table etc students and teacher centric subject materials included in book with balanced and chronological manner figures tables and mathematical equations are inserted to improve clarity of the topics short questions objective questions and long answer exercises are given for practice of students after every chapter comprehensive synopsis of formulae for a quick revision of the basic principles

how quickly can you compute the remainder when dividing by 120143 why would you even want to compute this and what does this have to do with cryptography modern cryptography lies at the intersection of mathematics and computer sciences involving number theory algebra computational complexity fast algorithms and even quantum mechanics many people think of codes in terms of spies but in the information age highly mathematical codes are used every day by almost everyone whether at the bank atm at the grocery checkout or at the keyboard when you access your email or purchase products online this book provides a historical and mathematical tour of cryptography from classical ciphers to quantum cryptography the authors introduce just enough mathematics to explore modern encryption methods with nothing more than basic algebra and some elementary number theory being necessary complete expositions are given of the classical ciphers and the attacks on them along with a detailed description of the famous enigma system the public key system rsa is described including a complete mathematical proof that it works numerous related topics are covered such as efficiencies of algorithms detecting and correcting errors primality testing and digital signatures the topics and exposition are carefully chosen to highlight mathematical thinking and problem solving each chapter ends with a collection of problems ranging from straightforward

applications to more challenging problems that introduce advanced topics unlike many books in the field this book is aimed at a general liberal arts student but without losing mathematical completeness

this book constitutes the joint refereed proceedings of calculemus 2014 digital mathematics libraries dml 2014 mathematical knowledge management mkm 2014 and systems and projects s p 2014 held in coimbra portugal during july 7 11 2014 as four tracks of cicm 2014 the conferences on intelligent computer mathematics the 26 full papers and 9 systems and projects descriptions presented together with 5 invited talks were carefully reviewed and selected from a total of 55 submissions the calculemus track of cicm examines the integration of symbolic computation and mechanized reasoning the digital mathematics libraries track evolved from the dml workshop series features math aware technologies standards algorithms and processes towards the fulfillment of the dream of a global dml the mathematical knowledge management track of cicm is concerned with all aspects of managing mathematical knowledge in the informal semi formal and formal settings the systems and projects track presents short descriptions of existing systems or on going projects in the areas of all the other tracks of the conference

learning to teach mathematics in the secondary school combines theory and practice to present a broad introduction to the opportunities and challenges of teaching mathematics in the secondary school classroom this fourth edition has been fully updated to reflect the latest changes to the curriculum and research in the field taking into account key developments in teacher training and education including examinations and assessment written specifically with the new and student teacher in mind the book covers a wide range of issues related to the teaching of mathematics such as why we teach mathematics the place of mathematics in the national curriculum planning teaching and assessing for mathematics learning how to communicate mathematically using digital technology to advance mathematical learning working with students with special educational needs post 16 teaching the importance of professional development the affective dimension when learning mathematics including motivation confidence and resilience already a major text for many university teaching courses this revised edition features a glossary of useful terms and carefully designed tasks to prompt critical reflection and support thinking and writing up to masters level issues of professional development are also examined as well as a range of teaching approaches and styles from whole class strategies to personalised learning helping you to make the most of school experience during your training and beyond designed for use as a core textbook learning to teach mathematics in the secondary school provides essential guidance and advice for all those who aspire to be effective mathematics teachers

this is the sixteenth edition of the book engineering mathematics i the earlier editions have received positive response from the teachers

and the students this textbook has been written conferring to the revised syllabus r19 of first year first semester of b tech students of jntu anantapur in this edition some topics have been updated the previous question paper problems have been included at appropriate places for the benefit of the students the previous gate questions have been included at the end of each chapter the topics has been made as simple as possible and in some instances detailed explanation

for b e b tech b arch students for first semester of all engineering colleges of maha maya technical university noida and gautam buddha technical university lucknow

twentieth century china has been caught between a desire to increase its wealth and power in line with other advanced nations which by implication means copying their institutions practices and values whilst simultaneously seeking to preserve china s independence and historically formed identity over time chinese philosophers writers artists and politicians have all sought to reconcile these goals and this book shows how this search for a chinese way penetrated even the most central least contested area of modernity science reviving ancient chinese mathematics is a study of the life of one of modern china s most admired scientific figures the mathematician wu wen tsun negotiating the conflict between progress and tradition he found a path that not only ensured his political and personal survival but which also brought him renown as a mathematician of international status who claimed that he stood outside the dominant western tradition of mathematics wu wen tsun s story highlights crucial developments and contradictions in twentieth century china the significance of which extends far beyond the field of mathematics on one hand lies the appeal of radical scientific modernity mechanisation in all its forms and competitiveness within the international scientific community on the other is an anxiety to preserve national traditions and make them part of the modernisation project moreover wu s intellectual development also reflects the complex relationship between science and maoist ideology because his turn to history was powered by his internalisation of certain aspects of maoist ideology including its utilitarian philosophy of science this book traces how wu managed to combine political success and international scientific eminence a story that has wider implications for a new century of increasing chinese activity in the sciences as such it will be of great interest to students and scholars of chinese history the history of science and the history and philosophy of mathematics

calculus and linear algebra cover all the modules prescribed by aicte model curriculum to all the 1st year cse students studying in engineering institutions and universities of the country it serves as both text book or useful reference work it contains 5 units which included calculus algebra and vector spaces along with their applications this renowned and well respected title provides in one handy

volume with the essential mathematical tools that help in understanding the subject and problem solving techniques with many real life engineering applications as per trademark of aicte this book is in student s friendly style author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students majority of questions in this book have been designed to access the reader s understanding of the subject professionals or those who are preparing for competitive examinations will also find this book very useful this book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country some salient features of the book in depth coverage of all related essential and mentioned topics as per aicte in simple presentation with clarity and accuracy emphasis on the applications of concepts and theorems core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner a good number of relatively competitive problems are given at the end of each unit in the form of short questions hots assignments mcqs and know more for student s practices purpose practical projects activity also given in each unit for enhancing the student s capability to increase the feeling of team work to clarify the subject the text has been supplemented through notes observations and remarks an attempt has been made to explain the topic through maximum use of geometries wherever possible some standard problems with sufficient hints have been included in each exercise to gauge the student s visual understanding and for grasp the theory video links interesting facts uses of ict also included after each topic in every unit for easy understanding of the readers also included the pictorial representations of many topics for fast and permanent grasping of the content

introduction to engineering mathematics volume i has been thoroughly revised according to the new syllabi 2018 onwards of dr a p j abdul kalam technical university aktu lucknow the book contains 19 chapters divided among five sections differential calculus i differential calculus ii matrices multivariable calculus i and vector calculus it contains good number of solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination

includes section recent publications

this book presents the proceedings of the 24th european conference on artificial intelligence ecai 2020 held in santiago de compostela spain from 29 august to 8 september 2020 the conference was postponed from june and much of it conducted online due to the covid 19 restrictions the conference is one of the principal occasions for researchers and practitioners of ai to meet and discuss the latest trends and challenges in all fields of ai and to demonstrate innovative applications and uses of advanced ai technology the book also includes the

proceedings of the 10th conference on prestigious applications of artificial intelligence pais 2020 held at the same time a record number of more than 1 700 submissions was received for ecai 2020 of which 1 443 were reviewed of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25 for full papers and 45 for highlight papers the book is divided into three sections ecai full papers ecai highlight papers and pais papers the topics of these papers cover all aspects of ai including agent based and multi agent systems computational intelligence constraints and satisfiability games and virtual environments heuristic search human aspects in ai information retrieval and filtering knowledge representation and reasoning machine learning multidisciplinary topics and applications natural language processing planning and scheduling robotics safe explainable and trustworthy ai semantic technologies uncertainty in ai and vision the book will be of interest to all those whose work involves the use of ai technology

part of a two volume series allied mathematics volume i specifically cater to the students in the universities of tamil nadu succinctly written it is designed in such a fashion to help in better understanding of students concepts have been explained working rules to solve problems are given in specific subrules and the formulae involved in each solution are given in appropriate places of the solution also madras university questions have been used in the relevant places to illustrate the different concepts while chapter end exercises with hints add ably to the practice quotient

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