Engineering Mathematics Jaggi

New Trends in Applied Analysis and Computational Mathematics Engineering Mathematics Recent Trends in Applied Mathematics Canadian Journal of Mathematics *The Mathematics Education Toward a Global Science* **Advances in Mathematical Modelling, Applied Analysis and Computation** *Intelligent Mathematics II: Applied Mathematics and Approximation Theory* **A Companion to Sanskrit Literature** Recent Advances in Intelligent Information Systems and Applied Mathematics Fixed Point Theory and Applications **Canadian Journal of Mathematics Numerical Mathematics and Advanced Applications** Information Technology and Applied Mathematics Canadian Journal of Mathematics **Canadian Journal of Mathematics Lectures on Convex Optimization Mathematical Analysis in Interdisciplinary Research** Handbook of Research on Mathematical Modeling for Smart Healthcare Systems *Handbook of Discrete and Computational Geometry, Second Edition* Trends in Teaching and Learning of Mathematical Modelling *Key to the Vedas The Mathematics Student* **5000 Years of Geometry Cultural Foundations of Mathematics Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy Soft Computing: Theories and Applications International Catalogue of Scientific Literature** *Handbook of Convex Geometry A Textbook on Fundamentals of Calculus Mathematical Optimization Theory and Operations Research: Recent Trends* **Advances in Interdisciplinary Research in Engineering and Business Management Journal of National Academy of Mathematics, India Mathematical Theory and Computational Practice** Fixed Point Theory in Metric Spaces Mathematical Software – ICMS 2018 International Catalogue of Scientific Literature, 1901-1914 Mathematical Modeling and Computation of Real-Time Problems *Predictive Analytics Indian Book Industry*

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Recent Trends in Applied Mathematics Sep 01 2022 This book presents select proceedings of the International Conference on Applied Mathematics in Science and Engineering (AMSE 2019). Various topics covered include computational fluid dynamics, applications of differential equations in engineering, numerical methods for ODEs and PDEs, mathematical modeling and analysis of biological systems, optimal control and controllability of differential equations, fractional calculus and its applications, nonlinear analysis, and functional analysis. This book will be of interest to researchers, academicians and students in the fields of applied sciences, mathematics and engineering.

Canadian Journal of Mathematics Nov 22 2021

Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy Sep 08 2020 This book presents new knowledge and recent developments in all aspects of computational techniques, mathematical modeling, energy systems, and applications of fuzzy sets and intelligent

computing. The book is a collection of best selected research papers presented at the Second International Conference on "Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE 2021)," organized by the Department of Mathematics, Pandit Deendayal Petroleum University, in association with Forum for Interdisciplinary Mathematics. The book provides innovative works of researchers, academicians, and students in the area of interdisciplinary mathematics, statistics, computational intelligence, and renewable energy.

Intelligent Mathematics II: Applied Mathematics and Approximation Theory Mar 27 2022 This special volume is a collection of outstanding more applied articles presented in AMAT 2015 held in Ankara, May 28-31, 2015, at TOBB Economics and Technology University. The collection is suitable for Applied and Computational Mathematics and Engineering practitioners, also for related graduate students and researchers. Furthermore it will be a useful resource for all science and engineering libraries. This book includes 29 self-contained and well-edited chapters that can be among others useful for seminars in applied and computational mathematics, as well as in engineering.

Fixed Point Theory in Metric Spaces Nov 30 2019 This book provides a detailed study of recent results in metric fixed point theory and presents several applications in nonlinear analysis, including matrix equations, integral equations and polynomial approximations. Each chapter is accompanied by basic definitions, mathematical preliminaries and proof of the main results. Divided into ten chapters, it discusses topics such as the Banach contraction principle and its converse; Ran-Reurings fixed point theorem with applications; the existence of fixed points for the class of α-ψ contractive mappings with applications to quadratic integral equations; recent results on fixed point theory for cyclic mappings with applications to the study of functional equations; the generalization of the Banach fixed point theorem on Branciari metric spaces; the existence of fixed points for a certain class of mappings satisfying an implicit contraction; fixed point results for a class of mappings satisfying a certain contraction involving extended simulation functions; the solvability of a coupled fixed point problem under a finite number of equality constraints; the concept of generalized metric spaces, for which the authors extend some well-known fixed point results; and a new fixed point theorem that helps in establishing a Kelisky–Rivlin type result for q-Bernstein polynomials and modified q-Bernstein polynomials. The book is a valuable resource for a wide audience, including graduate students and researchers.

Fixed Point Theory and Applications Dec 24 2021 Fixed Point Theory & Applications

Canadian Journal of Mathematics Jul 31 2022

Information Technology and Applied Mathematics Sep 20 2021 This book discusses recent advances and contemporary research in the field of cryptography, security, mathematics and statistics, and their applications in computing and information technology. Mainly focusing on mathematics and applications of mathematics in computer science and information technology, it includes contributions from eminent international scientists, researchers, and scholars. The book helps researchers update their knowledge of cryptography, security, algebra, frame theory, optimizations, stochastic processes, compressive sensing, functional analysis, and complex variables.

Lectures on Convex Optimization Jun 17 2021 This book provides a comprehensive, modern introduction to convex optimization, a field that is becoming increasingly important in applied mathematics, economics and finance, engineering, and computer science, notably in data science and machine learning. Written by a leading expert in the field, this book includes recent advances in the algorithmic theory of convex optimization, naturally complementing the existing literature. It contains a unified and rigorous presentation of the acceleration techniques for minimization schemes of first- and second-order. It provides readers with a full treatment of the smoothing technique, which has tremendously extended the abilities of gradient-type methods. Several powerful approaches in structural optimization, including optimization in relative scale and polynomial-time interior-point methods, are also discussed in detail.

Researchers in theoretical optimization as well as professionals working on optimization problems will find this book very useful. It presents many successful examples of how to develop very fast specialized minimization algorithms. Based on the author's lectures, it can naturally serve as the basis for introductory and advanced courses in convex optimization for students in engineering, economics, computer science and mathematics.

Mathematical Analysis in Interdisciplinary Research May 17 2021 This contributed volume provides an extensive account of research and expository papers in a broad domain of mathematical analysis and its various applications to a multitude of fields. Presenting the state-of-the-art knowledge in a wide range of topics, the book will be useful to graduate students and researchers in theoretical and applicable interdisciplinary research. The focus is on several subjects including: optimal control problems, optimal maintenance of communication networks, optimal emergency evacuation with uncertainty, cooperative and noncooperative partial differential systems, variational inequalities and general equilibrium models, anisotropic elasticity and harmonic functions, nonlinear stochastic differential equations, operator equations, max-product operators of Kantorovich type, perturbations of operators, integral operators, dynamical systems involving maximal monotone operators, the three-body problem, deceptive systems, hyperbolic equations, strongly generalized preinvex functions, Dirichlet characters, probability distribution functions, applied statistics, integral inequalities, generalized convexity, global hyperbolicity of spacetimes, Douglas-Rachford methods, fixed point problems, the general Rodrigues problem, Banach algebras, affine group, Gibbs semigroup, relator spaces, sparse data representation, Meier-Keeler sequential contractions, hybrid contractions, and polynomial equations. Some of the works published within this volume provide as well guidelines for further research and proposals for new directions and open problems.

Engineering Mathematics Oct 02 2022

Cultural Foundations of Mathematics Oct 10 2020 The Volume Examines, In Depth, The Implications Of Indian History And Philosophy For Contemporary Mathematics And Science. The Conclusions Challenge Current Formal Mathematics And Its Basis In The Western Dogma That Deduction Is Infallible (Or That It Is Less Fallible Than Induction). The Development Of The Calculus In India, Over A Thousand Years, Is Exhaustively Documented In This Volume, Along With Novel Insights, And Is Related To The Key Sources Of Wealth-Monsoon-Dependent Agriculture And Navigation Required For Overseas Trade - And The Corresponding Requirement Of Timekeeping. Refecting The Usual Double Standard Of Evidence Used To Construct Eurocentric History, A Single, New Standard Of Evidence For Transmissions Is Proposed. Using This, It Is Pointed Out That Jesuits In Cochin, Following The Toledo Model Of Translation, Had Long-Term Opportunity To Transmit Indian Calculus Texts To Europe. The European Navigational Problem Of Determining Latitude, Longitude, And Loxodromes, And The 1582 Gregorian Calendar-Reform, Provided Ample Motivation. The Mathematics In These Earlier Indian Texts Suddenly Starts Appearing In European Works From The Mid-16Th Century Onwards, Providing Compelling Circumstantial Evidence. While The Calculus In India Had Valid Pramana, This Differed From Western Notions Of Proof, And The Indian (Algorismus) Notion Of Number Differed From The European (Abacus) Notion. Hence, Like Their Earlier Difficulties With The Algorismus, Europeans Had Difficulties In Understanding The Calculus, Which, Like Computer Technology, Enhanced The Ability To Calculate, Albeit In A Way Regarded As Epistemologically Insecure. Present-Day Difficulties In Learning Mathematics Are Related, Via Phylogeny Is Ontogeny , To These Historical Difficulties In Assimilating Imported Mathematics. An Appendix Takes Up Further Contemporary Implications Of The New Philosophy Of Mathematics For The Extension Of The Calculus, Which Is Needed To Handle The Infinities Arising In The Study Of Shock Waves And The Renormalization Problem Of Quantum Field Theory.

Mathematical Optimization Theory and Operations Research: Recent Trends Apr 03 2020 This book constitutes refereed proceedings of the 20th International Conference on Mathematical Optimization Theory and

Operations Research, MOTOR 2021, held in Irkutsk, Russia, in July 2021. Due to the COVID-19 pandemic the conference was held online. The 31 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 102 submissions. The papers in the volume are organised according to the following topical headings: continuous optimization; integer programming and combinatorial optimization; operational research applications; optimal control.

A Companion to Sanskrit Literature Feb 23 2022 A Companion to Sanskrit Literature, the first work of its kind, covers a period of nearly 3500 years from the Vedic age down to the modern times. It seeks to acquaint the reader, within a brief compass, with the contents of outstanding works and authors in Sanskrit literature, followed by up-to-date bibliographies. It presents brief accounts of the important character in well-known poems, dramas and prose works have also been given. Important geographical names, with their modern identification as far as practicable, have also been laid down. Common technical terms, used in the different branches of Sanskrit literature, have been briefly explained, Prominent figures in myths and legends have been dealt with. In a number of appendices, various kinds of useful information about Sanskrit literature including sciences, sports and pastimes, etc. in ancient and medieval India have been set forth. It is an indispensable vade mecum for the general readers, the specialists and researchers. It is like a capsule taking the reader through the vast firmament of Sanskrit literature upto remote ages.

Canadian Journal of Mathematics Jul 19 2021

Mathematical Software – ICMS 2018 Oct 29 2019 This book constitutes the proceedings of the 6th International Conference on Mathematical Software, ICMS 2018, held in South Bend, IN, USA, in July 2018.The 59 papers included in this volume were carefully reviewed and selected from numerous submissions. The program of the 2018 meeting consisted of 20 topical sessions, each of which providing an overview of the challenges, achievements and progress in a subeld of mathematical software research, development and use.

Indian Book Industry Jun 25 2019

Trends in Teaching and Learning of Mathematical Modelling Feb 11 2021 This book contains suggestions for and reflections on the teaching, learning and assessing of mathematical modelling and applications in a rapidly changing world, including teaching and learning environments. It addresses all levels of education from universities and technical colleges to secondary and primary schools. Sponsored by the International Community of Teachers of Mathematical Modelling and Applications (ICTMA), it reflects recent ideas and methods contributed by specialists from 30 countries in Africa, the Americas, Asia, Australia and Europe. Inspired by contributions to the Fourteenth Conference on the Teaching of Mathematical Modelling and Applications (ICTMA14) in Hamburg, 2009, the book describes the latest trends in the teaching and learning of mathematical modelling at school and university including teacher education. The broad and versatile range of topics will stress the international state-of-the-art on the following issues: Theoretical reflections on the teaching and learning of modelling Modelling competencies Cognitive perspectives on modelling Modelling examples for all educational levels Practice of modelling in school and at university level Practices in Engineering and Applications

New Trends in Applied Analysis and Computational Mathematics Nov 03 2022 The volume contains original research papers as the Proceedings of the International Conference on Advances in Mathematics and Computing, held at Veer Surendra Sai University of Technology, Odisha, India, on 7-8 February, 2020. It focuses on new trends in applied analysis, computational mathematics and related areas. It also includes certain new models, image analysis technique, fluid flow problems, etc. as applications of mathematical analysis and computational mathematics. The volume should bring forward new and emerging topics of mathematics and computing having potential applications and uses in other areas of sciences. It can serve as a valuable resource for graduate students, researchers and educators interested in mathematical tools and techniques for solving various problems arising in science and

engineering.

The Mathematics Education Jun 29 2022

Predictive Analytics Jul 27 2019 Predictive analytics refers to making predictions about the future based on different parameters which are historical data, machine learning, and artificial intelligence. This book provides the most recent advances in the field along with case studies and real-world examples. It discusses predictive modeling and analytics in reliability engineering and introduces current achievements and applications of artificial intelligence, data mining, and other techniques in supply chain management. It covers applications to reliability engineering practice, presents numerous examples to illustrate the theoretical results, and considers and analyses case studies and real-word examples. The book is written for researchers and practitioners in the field of system reliability, quality, supply chain management, and logistics management. Students taking courses in these areas will also find this book of interest.

Handbook of Research on Mathematical Modeling for Smart Healthcare Systems Apr 15 2021 Advances in healthcare technologies have offered real-time guidance and technical assistance for diagnosis, monitoring, operation, and interventions. The development of artificial intelligence, machine learning, internet of things technology, and smart computing techniques are crucial in today's healthcare environment as they provide frictionless and transparent financial transactions and improve the overall healthcare experience. This, in turn, has far-reaching effects on economic, psychological, educational, and organizational improvements in the way we work, teach, learn, and provide care. These advances must be studied further in order to ensure they are adapted and utilized appropriately. The Handbook of Research on Mathematical Modeling for Smart Healthcare Systems presents the latest research findings, ideas, innovations, developments, and applications in the field of modeling for healthcare systems. Furthermore, it presents the application of innovative techniques to complex problems in the case of healthcare. Covering a range of topics such as artificial intelligence, deep learning, and personalized healthcare services, this reference work is crucial for engineers, healthcare professionals, researchers, academicians, scholars, practitioners, instructors, and students.

Canadian Journal of Mathematics Aug 20 2021

Recent Advances in Intelligent Information Systems and Applied Mathematics Jan 25 2022 This book describes the latest advances in intelligent techniques such as fuzzy logic, neural networks, and optimization algorithms, and their relevance in building intelligent information systems in combination with applied mathematics. The authors also outline the applications of these systems in areas like intelligent control and robotics, pattern recognition, medical diagnosis, time series prediction, and optimization of complex problems. By sharing fresh ideas and identifying new targets/problems it offers young researchers and students new directions for their future research. The book is intended for readers from mathematics and computer science, in particular professors and students working on theory and applications of intelligent systems for real-world applications.

Mathematical Modeling and Computation of Real-Time Problems Aug 27 2019 This book covers an interdisciplinary approach for understanding mathematical modeling by offering a collection of models, solved problems related to the models, the methodologies employed, and the results using projects and case studies with insight into the operation of substantial real-time systems. The book covers a broad scope in the areas of statistical science, probability, stochastic processes, fluid dynamics, supply chain, optimization, and applications. It discusses advanced topics and the latest research findings, uses an interdisciplinary approach for real-time systems, offers a platform for integrated research, and identifies the gaps in the field for further research. The book is for researchers, students, and teachers that share a goal of learning advanced topics and the latest research in mathematical modeling.

5000 Years of Geometry Nov 10 2020 The present volume provides a fascinating overview of geometrical ideas and perceptions from the earliest cultures to the mathematical and artistic concepts of the 20th century. It is the English translation of the 3rd edition of the well-received German book "5000 Jahre Geometrie," in which

geometry is presented as a chain of developments in cultural history and their interaction with architecture, the visual arts, philosophy, science and engineering. Geometry originated in the ancient cultures along the Indus and Nile Rivers and in Mesopotamia, experiencing its first “Golden Age” in Ancient Greece. Inspired by the Greek mathematics, a new germ of geometry blossomed in the Islamic civilizations. Through the Oriental influence on Spain, this knowledge later spread to Western Europe. Here, as part of the medieval Quadrivium, the understanding of geometry was deepened, leading to a revival during the Renaissance. Together with parallel achievements in India, China, Japan and the ancient American cultures, the European approaches formed the ideas and branches of geometry we know in the modern age: coordinate methods, analytical geometry, descriptive and projective geometry in the 17th an 18th centuries, axiom systems, geometry as a theory with multiple structures and geometry in computer sciences in the 19th and 20th centuries. Each chapter of the book starts with a table of key historical and cultural dates and ends with a summary of essential contents of geometr y in the respective era. Compelling examples invite the reader to further explore the problems of geometry in ancient and modern times. The book will appeal to mathematicians interested in Geometry and to all readers with an interest in cultural history. From letters to the authors for the German language edition I hope it gets a translation, as there is no comparable work. Prof. J. Grattan-Guinness (Middlesex University London) "Five Thousand Years of Geometry" - I think it is the most handsome book I have ever seen from Springer and the inclusion of so many color plates really improves its appearance dramatically! Prof. J.W. Dauben (City University of New York) An excellent book in every respect. The authors have successfully combined the history of geometry with the general development of culture and history. ... The graphic design is also excellent. Prof. Z. Nádenik (Czech Technical University in Prague)

Journal of National Academy of Mathematics, India Jan 31 2020

Soft Computing: Theories and Applications Aug 08 2020 The book focuses on soft computing and its applications to solve real-world problems occurring in different domains ranging from medicine and healthcare, and supply chain management to image processing and cryptanalysis. It includes high-quality papers presented in the International Conference on Soft Computing: Theories and Applications (SoCTA 2017), organized by Bundelkhand University, Jhansi, India. Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

Handbook of Discrete and Computational Geometry, Second Edition Mar 15 2021 While high-quality books and journals in this field continue to proliferate, none has yet come close to matching the Handbook of Discrete and Computational Geometry, which in its first edition, quickly became the definitive reference work in its field. But with the rapid growth of the discipline and the many advances made over the past seven years, it's time to bring this standard-setting reference up to date. Editors Jacob E. Goodman and Joseph O'Rourke reassembled their stellar panel of contributors, added manymore, and together thoroughly revised their work to make the most important results and methods, both classic and cutting-edge, accessible in one convenient volume. Now over more then 1500 pages, the Handbook of Discrete and Computational Geometry, Second Edition once again provides unparalleled, authoritative coverage of theory, methods, and applications. Highlights of the Second Edition: Thirteen new chapters: Five on applications and others on collision detection, nearest neighbors in high-dimensional spaces, curve and surface reconstruction, embeddings of finite metric spaces, polygonal linkages, the discrepancy method, and geometric graph theory Thorough revisions of all remaining chapters Extended coverage of computational geometry software, now comprising two chapters: one on the LEDA and CGAL libraries, the other on additional software Two indices: An Index of Defined Terms and an Index of Cited Authors Greatly expanded bibliographies

International Catalogue of Scientific Literature Jul 07 2020

Advances in Interdisciplinary Research in Engineering and Business Management Mar 03 2020 The volume contains latest research on software reliability assessment, testing, quality management, inventory management, mathematical modeling, analysis using soft computing techniques and management analytics. It links researcher and practitioner perspectives from different branches of engineering and management, and from around the world for a bird's eye view on the topics. The interdisciplinarity of engineering and management research is widely recognized and considered to be the most appropriate and significant in the fast changing dynamics of today's times. With insights from the volume, companies looking to drive decision making are provided actionable insight on each level and for every role using key indicators, to generate mobile-enabled scorecards, time-series based analysis using charts, and dashboards. At the same time, the book provides scholars with a platform to derive maximum utility in the area by subscribing to the idea of managing business through performance and business analytics.

Mathematical Theory and Computational Practice Jan 01 2020 This book constitutes the proceedings of the 5th Conference on Computability in Europe, CiE 2009, held in Heidelberg, Germany, during July 19-24, 2009. The 34 papers presented together with 17 invited lectures were carefully reviewed and selected from 100 submissions. The aims of the conference is to advance our theoretical understanding of what can and cannot be computed, by any means of computation. It is the largest international meeting focused on computability theoretic issues.

International Catalogue of Scientific Literature, 1901-1914 Sep 28 2019

Toward a Global Science May 29 2022 Asian science such as mathematics, Chinese printing, gunpowder and the compass, all contributed to the development of European science. During the last few centuries, however, scientific contributions with Asian roots have diminished and been marginalized and deligitimised. Yet the center of the world economy today is shifting to Asia with shifts in science and technology bound to follow. Toward a Global Science is driven by the proposition that pre-Renaissance acquisition of Asian knowledge did not exhaust Asian civilizationÕs potential contribution. There are many useful elements to modern science still lying hidden in Asian civilizational stores waiting to be Òmined.Ó The author gives details of recent contributions from South Asian medicine, mathematics, and psychology and explores how South Asian inputs can be useful in navigating the philosophical and ethical problems raised by two dominant technologies of the future, namely biotechnology and information technology. As an illustrative example, it describes how a fruitful marriage of one technologyÑvirtual realityÑwith South Asian philosophy can enliven both the technology as well as philosophy. It also examines how Asian positions could be used to feed some key contemporary philosophical discussions on science. Using a model of the civilizational construction of science, the book views science without Eurocentric blinders. It documents how science was built initially by transfers from non-European civilizations and why the given historiography of science has to be rethought. Throughout the book the author gives examples of Òparallels and antecedentsÓ between East and West in science and estimates the potential reservoir of Asian knowledge in each field. The book also deals with the many knotty problems in recovering science from past traditions. The author distinguishes between his secular efforts from religious and other attempts that claim the equivalence of all knowledge systems.

Key to the Vedas Jan 13 2021

Handbook of Convex Geometry Jun 05 2020 Handbook of Convex Geometry, Volume A offers a survey of convex geometry and its many ramifications and relations with other areas of mathematics, including convexity, geometric inequalities, and convex sets. The selection first offers information on the history of convexity, characterizations of convex sets, and mixed volumes. Topics include elementary convexity, equality in the Aleksandrov-Fenchel inequality, mixed surface area measures, characteristic properties of convex sets in analysis and differential geometry, and extensions of the notion of a convex set. The text then reviews the standard isoperimetric theorem and stability of geometric inequalities. The manuscript takes a look at selected affine isoperimetric inequalities,

extremum problems for convex discs and polyhedra, and rigidity. Discussions focus on include infinitesimal and static rigidity related to surfaces, isoperimetric problem for convex polyhedral, bounds for the volume of a convex polyhedron, curvature image inequality, Busemann intersection inequality and its relatives, and Petty projection inequality. The book then tackles geometric algorithms, convexity and discrete optimization, mathematical programming and convex geometry, and the combinatorial aspects of convex polytopes. The selection is a valuable source of data for mathematicians and researchers interested in convex geometry.

The Mathematics Student Dec 12 2020

Advances in Mathematical Modelling, Applied Analysis and Computation Apr 27 2022 This book is a valuable source for graduate students and researchers and provides a comprehensive introduction to recent theories and applications of mathematical modeling and numerical simulation. It includes selected peer-reviewed papers presented at the 4th International Conference on Mathematical Modelling, Applied Analysis and Computation (ICMMAAC 2021), held at JECRC University, Jaipur, India, during August 57, 2021. The book is focused on mathematical modeling of various problems arising in science and engineering and new efficient numerical approaches for solving linear nonlinear problems and rigorous mathematical theories, which can be used to analyze different kinds of mathematical models. Applications of mathematical methods in physics, chemistry, biology, mechanical engineering, civil engineering, computer science, social science, and finance are presented.

A Textbook on Fundamentals of Calculus May 05 2020 This book has been designed in accordance with the Undergraduate Curriculum Framework-2022 followed by the Central Universities of India including University of Delhi under the National Education Policy (NEP)-2020. Keeping in mind the need to uphold students' interest in the subject, vivid explanation of concepts as well as explanatory illustrations followed by exercises have been included. The book is exclusively designed to help and guide the students of Mathematics DSC-5 B.Sc. (Hons.) Mathematics; GE-1(i) B.Sc./B.A. (Hons.) (Other than Mathematics); Discipline A-1 and GE-1(i) Bachelor in Multidisciplinary Courses. It is also useful for B.Tech. students of various Universities and for preparation of competitive examinations. The students of open and distance education courses will also find the book very beneficial. The Salient Features of the book are as follows: 1. An all-encompassing and self-sufficient textbook for UGCF-2022 based on NEP-2020. 2. Written in lucid and simple language. 3. Written with a view to present a qualitative understanding of the subject. 4. Comprehensive step-by-step explanation for easier understanding of the subject. 5. Many solved examples and unsolved problems have been drawn from recent examination papers of universities. 6. Answers to all the problems in each exercise are provided immediately after the exercise for the convenience of the reader.

Numerical Mathematics and Advanced Applications Oct 22 2021 An invaluable instrument for gaining a wide-ranging perspective on the latest developments in mathematical aspects of scientific computing, discovering new applications and the most recent developments in long-standing applications. Provides an insight into the state of the art of Numerical Mathematics and, more generally, into the field of Advanced Applications.