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*Cambridge University Press* **This treatise deals with modern theory of functional equations in several variables and their applications to mathematics, information theory, and the natural, behavioural and social sciences. The authors have chosen to emphasize applications, though not at the expense of theory, so they have kept the prerequisites to a minimum.**

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find some new problems to tackle. Most of the material can be understood by a reader with a relatively modest knowledge of differential and inte gral equations and functional analysis. Readers interested in stochastic optimization will find a new theory of prac tical . importance. Readers interested in problems of static and quasi-static electrodynamics, wave scattering by small bodies of arbitrary shape, and corresponding applications in geophysics, optics, and radiophysics will find explicit analytical formulas for the scattering matrix, polarizability tensor, electrical capacitance of bodies of an arbitrary shape; numerical examples showing the practical utility of these formulas; two-sided variational estimates for the pol arizability tensor; and some open problems such as working out a standard program for calculating the capacitance and polarizability of bodies of arbitrary shape and numerical calculation of multiple integrals with weak singularities. Readers interested in nonlinear vibration theory will find a new method for qualitative study of stationary regimes in the general one-loop passive nonlinear network, including stabil ity in the large, convergence, and an iterative process for calculation the stationary regime. No assumptions concerning the smallness of the nonlinearity or the filter property of the linear one-port are made. New results in the theory of nonlinear operator equations form the basis for the study.

## ITERATIVE METHODS FOR SOLVING NONLINEAR EQUATIONS AND SYSTEMS

*MDPI* Solving nonlinear equations in Banach spaces (real or complex nonlinear equations, nonlinear systems, and nonlinear matrix equations, among others), is a non-trivial task that involves many areas of science and technology. Usually the solution is not directly affordable and require an approach using iterative algorithms. This Special Issue focuses mainly on the design, analysis of convergence, and stability of new schemes for solving nonlinear problems and their application to practical problems. Included papers study the following topics: Methods for finding simple or multiple roots either with or without derivatives, iterative methods for approximating different generalized inverses, real or complex dynamics associated to the rational functions resulting from the application of an iterative method on a polynomial. Additionally, the analysis of the convergence has been carried out by means of different sufficient conditions assuring the local, semilocal, or global convergence. This Special issue has allowed us to present the latest research results in the area of iterative processes for solving nonlinear equations as well as systems and matrix equations. In addition to the theoretical papers, several manuscripts on signal processing, nonlinear integral equations, or partial differential equations, reveal the connection between iterative methods and other branches of science and engineering.

## S.CHAND'S MATHEMATICS FOR CLASS XI

*S. Chand Publishing* S. Chand's Mathematics books for Classes IX and X are completely based on CCE pattern of CBSE. The book for Term I covers the syllabus from April to September and the book for Term II covers the syllabus from October to March.

## FUNCTIONAL ANALYSIS AND ITS APPLICATIONS

## PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON FUNCTIONAL ANALYSIS AND ITS APPLICATIONS DEDICATED TO THE 110TH ANNIVERSARY OF STEFAN BANACH, MAY 28-31, 2002, LVIV, UKRAINE

*Elsevier* The conference took place in Lviv, Ukraine and was dedicated to a famous Polish mathematician Stefan Banach ƒ{ the most outstanding representative of the Lviv mathematical school. Banach spaces, introduced by Stefan Banach at the beginning of twentieth century, are familiar now to every mathematician. The book contains a short historical article and scientific contributions of the conference participants, mostly in the areas of functional analysis, general topology, operator theory and related topics.

## PLANE TRIGONOMETRY

## MATHEMATICS OF THE USSR: IZVESTIJA

## IN PURSUIT OF THE UNKNOWN

## 17 EQUATIONS THAT CHANGED THE WORLD

*Basic Books* The seventeen equations that form the basis for life as we know it Most people are familiar with history's great equations: Newton's Law of Gravity, for instance, or Einstein's theory of relativity. But the way these mathematical breakthroughs have contributed to human progress is seldom appreciated. In In Pursuit of the Unknown, celebrated

mathematician Ian Stewart untangles the roots of our most important mathematical statements to show that equations have long been a driving force behind nearly every aspect of our lives. Using seventeen of our most crucial equations--including the Wave Equation that allowed engineers to measure a building's response to earthquakes, saving countless lives, and the Black-Scholes model, used by bankers to track the price of financial derivatives over time--Stewart illustrates that many of the advances we now take for granted were made possible by mathematical discoveries. An approachable, lively, and informative guide to the mathematical building blocks of modern life, In Pursuit of the Unknown is a penetrating exploration of how we have also used equations to make sense of, and in turn influence, our world.

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## VOLUME I: IN HONOR OF YU. I. MANIN

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*Prabhat Prakashan*

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*American Mathematical Soc.* **Vladimir Abramovich Rokhlin (8/23/1919–12/03/1984) was one of the leading Russian mathematicians of the second part of the twentieth century. His main achievements were in algebraic topology, real algebraic geometry, and ergodic theory. The volume contains the proceedings of the Conference on Topology, Geometry, and Dynamics: V. A. Rokhlin-100, held from August 19–23, 2019, at The Euler International Mathematics Institute and the Steklov Institute of Mathematics, St. Petersburg, Russia. The articles deal with topology of manifolds, theory of cobordisms, knot theory, geometry of real algebraic manifolds and dynamical systems and related topics. The book also contains Rokhlin's biography supplemented with copies of actual very interesting documents.**

## EXPLORING COMPUTER SCIENCE CLASS 7

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## NUMERICAL METHODS FOR ROOTS OF POLYNOMIALS - PART II

## CHAPTER 9. METHODS INVOLVING SECOND OR HIGHER DERIVATIVES

*Elsevier Inc. Chapters* **Whereas Newton's method involves only the first derivative, methods discussed in this chapter involve the second or higher. The "classical" methods of this type (such as Halley's, Euler's, Hansen and Patrick's, Ostrowski's, Cauchy's and Chebyshev's) are all third order with three evaluations, so are slightly more efficient than Newton's method. Convergence of some of these methods is discussed, as well as composite variations (some of which have fairly high efficiency). We describe special methods for multiple roots, simultaneous or interval methods, and acceleration techniques. We treat Laguerre's method, which is known to be globally convergent for all-real-roots. The Cluster-Adapted Method is useful for multiple or near-multiple roots. Several composite methods are discussed, as well as methods using determinants or various types of interpolation, and Schroeder's method.**

## FINITE DIFFERENCE METHODS. THEORY AND APPLICATIONS

## 7TH INTERNATIONAL CONFERENCE, FDM 2018, LOZENETZ, BULGARIA, JUNE 11-16, 2018, REVISED SELECTED PAPERS

*Springer* **This book constitutes the refereed conference proceedings of the 7th International Conference on Finite Difference Methods, FDM 2018, held in Lozenetz, Bulgaria, in June 2018.The 69 revised full papers presented together with 11 invited papers were carefully reviewed and selected from 94 submissions. They deal with many modern and new numerical techniques like splitting techniques, Green's function method, multigrid methods, and immersed interface method.**

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*CRC Press* **Celebrating the work of renowned mathematician Jerome A. Goldstein, this reference compiles original research on the theory and application of evolution equations to stochastics, physics, engineering, biology, and finance. The text explores a wide range of topics in linear and nonlinear semigroup theory, operator theory, functional analysis, and li**

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(P.I. Ettinghoff).

## ADVANCES IN HARMONIC ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS

*American Mathematical Soc.* **This volume contains the proceedings of the AMS Special Session on Harmonic Analysis and Partial Differential Equations, held from April 21-22, 2018, at Northeastern University, Boston, Massachusetts. The book features a series of recent developments at the interface between harmonic analysis and partial differential equations and is aimed toward the theoretical and applied communities of researchers working in real, complex, and harmonic analysis, partial differential equations, and their applications. The topics covered belong to the general areas of the theory of function spaces, partial differential equations of elliptic, parabolic, and dissipative types, geometric optics, free boundary problems, and ergodic theory, and the emphasis is on a host of new concepts, methods, and results.**

## DEVELOPMENTS IN FUNCTIONAL EQUATIONS AND RELATED TOPICS

*Springer* **This book presents current research on Ulam stability for functional equations and inequalities. Contributions from renowned scientists emphasize fundamental and new results, methods and techniques. Detailed examples are given to theories to further understanding at the graduate level for students in mathematics, physics, and engineering. Key topics covered in this book include: Quasi means Approximate isometries Functional equations in hypergroups Stability of functional equations Fischer-Muszély equation Haar meager sets and Haar null sets Dynamical systems Functional equations in probability theory Stochastic convex ordering Dhombres functional equation Nonstandard analysis and Ulam stability This book is dedicated in memory of Staniłsaw Marcin Ulam, who posed the fundamental problem concerning approximate homomorphisms of groups in 1940; which has provided the stimulus for studies in the stability of functional equations and inequalities.**

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## FRACTIONAL-ORDER EQUATIONS AND INCLUSIONS

*Walter de Gruyter GmbH & Co KG* This book presents fractional difference, integral, differential, evolution equations and inclusions, and discusses existence and asymptotic behavior of their solutions. Controllability and relaxed control results are obtained. Combining rigorous deduction with abundant examples, it is of interest to nonlinear science researchers using fractional equations as a tool, and physicists, mechanics researchers and engineers studying relevant topics. Contents Fractional Difference Equations Fractional Integral Equations Fractional Differential Equations Fractional Evolution Equations: Continued Fractional Differential Inclusions

## STOCHASTIC PARTIAL DIFFERENTIAL EQUATIONS AND RELATED FIELDS

## IN HONOR OF MICHAEL RÖCKNER SPDERF, BIELEFELD, GERMANY, OCTOBER 10 -14, 2016

*Springer* This Festschrift contains five research surveys and thirty-four shorter contributions by participants of the conference "Stochastic Partial Differential Equations and Related Fields" hosted by the Faculty of Mathematics at Bielefeld University, October 10-14, 2016. The conference, attended by more than 140 participants, including PostDocs and PhD students, was held both to honor Michael Röckner's contributions to the field on the occasion of his 60th birthday and to bring together leading scientists and young researchers to present the current state of the art and promising future developments. Each article introduces a well-described field related to Stochastic Partial Differential Equations and Stochastic Analysis in general. In particular, the longer surveys focus on Dirichlet forms and Potential theory, the analysis of Kolmogorov operators, Fokker–Planck equations in Hilbert spaces, the theory of variational solutions to stochastic partial differential equations, singular stochastic partial differential equations and their applications in mathematical physics, as well as on the theory of regularity structures and paracontrolled distributions. The numerous research surveys make the volume especially useful for graduate students and researchers who wish to start work in the above-mentioned areas, or who want to be informed about the current state of the art.

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## OSCILLATION AND DYNAMICS IN DELAY EQUATIONS

## PROCEEDINGS OF AN AMS SPECIAL SESSION HELD JANUARY 16-19, 1991

*American Mathematical Soc.* Oscillation theory and dynamical systems have long been rich and active areas of research. Containing frontier contributions by some of the leaders in the field, this book brings together papers based on presentations at the AMS meeting in San Francisco in January, 1991. With special emphasis on delay equations, the papers cover a broad range of topics in ordinary, partial, and difference equations and include applications to problems in commodity prices, biological modeling, and number theory. The book would be of interest to graduate students and researchers in mathematics or those in other fields who have an interest in delay equations and their applications.

## NUMERICAL ANALYSIS: HISTORICAL DEVELOPMENTS IN THE 20TH CENTURY

*Elsevier* Numerical analysis has witnessed many significant developments in the 20th century. This book brings together 16 papers dealing with historical developments, survey papers and papers on recent trends in selected areas of numerical analysis, such as: approximation and interpolation, solution of linear systems and eigenvalue problems, iterative methods, quadrature rules, solution of ordinary-, partial- and integral equations. The papers are reprinted from the 7-volume project of the Journal of Computational and Applied Mathematics on '/homepage/sac/cam/na2000/index.htmlNumerical Analysis 2000'. An introductory survey paper deals with the history of the first courses on numerical analysis in several countries and with the landmarks in the development of important algorithms and concepts in the field.

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## GEOMETRY IN PARTIAL DIFFERENTIAL EQUATIONS

*World Scientific* **This book emphasizes the interdisciplinary interaction in problems involving geometry and partial differential equations. It provides an attempt to follow certain threads that interconnect various approaches in the geometric applications and influence of partial differential equations. A few such approaches include: Morse-Palais-Smale theory in global variational calculus, general methods to obtain conservation laws for PDEs, structural investigation for the understanding of the meaning of quantum geometry in PDEs, extensions to super PDEs (formulated in the category of supermanifolds) of the geometrical methods just introduced for PDEs and the harmonic theory which proved to be very important especially after the appearance of the Atiyah-Singer index theorem, which provides a link between geometry and topology. Contents:Some Applications of the Coarea Formula to Partial Differential Equations (F Bethuel & J-M Ghidaglia)Optical Hamiltonian Functions (M Bialy & L Polterovich)On the Geometry of the Hodge-De Rham Laplace Operators (M Craioveanu et al.)Minimal Surfaces in Economic Theory (J Donato)Asymptotic Expansions in Spectral Geometry (P B Gilkey)Deformations and Recursion Operators for Evolution Equations (I S Krasil'shchik & P H M Kersten)Geometric Hamiltonian Forms for the Kadomtsev-Petviashvili and Zabolotskaya-Khokhlov Equations (B A Kupershmidt)Spencer Cohomologies (V Lychagin & L Zilbergleit)Hawking's Radiation via Fourier Integral Operators (P E Parker)Geometry of Super PDE's (A Pràstaro)On a Geometric Approach to an Equation of J d'Alembert (A Pràstaro & Th M Rassias)Geometric Prequantization of the Einstein's Vacuum Field Equations (M Puta)Smooth Marginal Analysis of Bifurcation of Extremals (Y I Sapronov)On the Schrödinger Equation for an N-Electron Atom (C S Sharma)Strings and Membranes (K S Stelle)and other papers Readership: Mathematicians. keywords:PDE's;Geometry;Superequations;Deformations;Hamiltonian-forms;Integrability;Spencer-Cohomology;Prequantization;Corea-Formula;Conservation-Laws;D'Alembert-Equation;Monge-Ampere-Equation;Euler-Darboux-Equation**

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