1. **Record Nr.** UNINA9910349322103321

Titolo Current Trends in Mathematical Analysis and Its Interdisciplinary Applications / / edited by Hemen Dutta, Ljubiša D. R. Koinac, Hari M. Srivastava

Pubbl/distr/stampa Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2019

ISBN 3-030-15242-1

Edizione [1st ed. 2019.]

Descrizione fisica 1 online resource (912 pages)

Disciplina 515

Soggetti Partial differential equations
Integral equations
Differential equations
Operator theory
Functional analysis
Special functions
Partial Differential Equations
Integral Equations
Ordinary Differential Equations
Operator Theory
Functional Analysis
Special Functions

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Nota di contenuto FM -- Frictional Contact Problems for Steady Flow of Incompressible Fluids in Orlicz Spaces -- Discrete Fourier Transform and Theta Function Identities -- On Some Combinatorics of Rogers–Ramanujan Type Identities Using Signed Color Partitions -- Piecewise Continuous Stepanov-Like Almost Automorphic Functions with Applications to Impulsive Systems -- On the Convergence of Secant-Like Methods -- Spacetimes as Topological Spaces, and the Need to Take Methods of General Topology More Seriously -- Analysis of Generalized BBM Equations: Symmetry Groups and Conservation Laws -- Symmetry

Analysis and Conservation Laws for Some Boussinesq Equations with Damping Terms -- On Some Variable Exponent Problems with No-Flux Boundary Condition -- On the General Decay for a System of Viscoelastic Wave Equations -- Mathematical Theory of Incompressible Flows: Local Existence, Uniqueness, and Blow-Up of Solutions in Sobolev–Gevrey Spaces -- Mathematical Research for Models Which is Related to Chemotaxis System -- Optimal Control of Quasivariational Inequalities with Applications to Contact Mechanics -- On Generalized Derivative Sampling Series Expansion -- Voronoi Polygonal Hybrid Finite Elements and Their Applications -- VariationalMethods for Schrödinger Type Equations -- Nonlinear Nonhomogeneous Elliptic Problems -- Summability of Double Sequences and Double Series Over Non-Archimedean Fields: A Survey -- On Approximate Solutions of Linear and Nonlinear Singular Integral Equations -- On Approximate Solutions of Linear and Nonlinear Singular Integral Equations -- On Difference Double Sequences and Their Applications -- Pointwise Convergence Analysis for Nonlinear Double m-Singular Integral Operators -- A Survey on p-Adic Integrals -- On Statistical Deferred Cesàro Summability.

| Sommario/riassunto | This book explores several important aspects of recent developments in the interdisciplinary applications of mathematical analysis (MA), and highlights how MA is now being employed in many areas of scientific research. Each of the 23 carefully reviewed chapters was written by experienced expert(s) in respective field, and will enrich readers' understanding of the respective research problems, providing them with sufficient background to understand the theories, methods and applications discussed. The book's main goal is to highlight the latest trends and advances, equipping interested readers to pursue further research of their own. Given its scope, the book will especially benefit graduate and PhD students, researchers in the applied sciences, educators, and engineers with an interest in recent developments in the interdisciplinary applications of mathematical analysis. |