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Nota di contenuto	On Equivalent Properties of Hardy-Type Integral Inequality with the General Nonhomogeneous Kernel and Parameters -- Fundamental Stabilities of Various Forms of Complex Valued Functional Equations -- Statistical summability of double sequences by the weighted mean and associated approximation results -- A survey on a conjecture of rainer bruck -- Nonlinear Magneto-Elasticity: Direct and Inverse Problems -- Note on periodic and asymptotically periodic solutions of fractional dierential equations -- Mathematics of Waveelds -- A Variational Technique to the Homogenization of Maxwell Equations -- The Narimanov-Moiseev multimodal analysis of nonlinear sloshing in circular conical tanks -- The Lengyel-Epstein Reaction Diusion System -- Prediction and Control of Buckling: The Inverse Bifurcation Problems for von Karman equations -- Numerical Solution with special layer adapted meshes for singularly perturbed boundary value problems -- Use of Galerkin technique in some water wave scattering problems involving plane vertical barriers -- Dynamics of a class of Leslie-Gower predation models with a non-differentiable functional response -- Entire solutions of a nonlinear diffusion system -- Goal Programming Models for Managerial Strategic Decision Making -- Modeling highly random dynamical infectious systems -- On weighted convergence of

double singular integral operators involving summation -- Circular-like and circular elements in free product banach -algebras induced by p-adic number fields Q_p over primes p -- On Statistical Deferred Weighted B-convergence -- Multi Poly-Bernoulli and Multi Poly-Euler Polynomials -- Geometric properties of normalized Wright functions -- On the spectra of difference operators over some Banach spaces.

Sommario/riassunto

This book addresses key aspects of recent developments in applied mathematical analysis and its use. It also highlights a broad range of applications from science, engineering, technology and social perspectives. Each chapter investigates selected research problems and presents a balanced mix of theory, methods and applications for the chosen topics. Special emphasis is placed on presenting basic developments in applied mathematical analysis, and on highlighting the latest advances in this research area. The book is presented in a self-contained manner as far as possible, and includes sufficient references to allow the interested reader to pursue further research in this still-developing field. The primary audience for this book includes graduate students, researchers and educators; however, it will also be useful for general readers with an interest in recent developments in applied mathematical analysis and applications.