

1. Record Nr.	UNINA9910360848303321
Titolo	Frontiers in Functional Equations and Analytic Inequalities // edited by George A. Anastassiou, John Michael Rassias
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-28950-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (xiv, 753 pages)
Disciplina	515.7
Soggetti	Functional analysis Functional Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Complex Korovkin Theory via inequalities, a quantitative approach -- Hyperstability of a lineat functional Equation aon restricted domains -- "Hyers-Ulam's stability results to a three point boundary value problem of nonlinear fractional order differential equations" -- "Topological degree theory and Ulam's stability analysis of a boundary value problem of fractional differential equations" -- On a variant of - Wilson's functional equation with an endomorphism -- On the additivity of maps preserving triple Jordan product $A B + B A$ on algebras -- "General Solution and Hyers-Ulam Stability of DuoTrigintic Functional Equation in Multi-Banach Spaces" -- "Stabilities of MIQD and MIQA Functional Equations via Fixed Point Technique" -- Hyers-Ulam Stability of First Order Differential Equation via Integral Inequality -- "Stability of a n-Dimensional Functional Equation in Banach Space and Fuzzy Normed Space" -- Measure zero stability problem for Drygas functional equation with complex involution -- Fourier Transforms and Ulam Stabilities of Linear Di erential Equations -- A class of functional equations of type d'Alembert on monoids -- Hyers-Ulam stability of a discrete diamond-alpha derivative equation -- Hyers-Ulam stability for a first-order linear proportional nabla difference operator -- Solution of generalized Jensen and quadratic functional equation -- On some functional equations with applications in Networks -- Approximate solutions of an (AQQ) additive-quadratic-quartic functional equation --

Ostrowski type inequalities involving sublinear integrals -- "Inequalities for special strong differential superordinations using a generalized Salagean operator and Ruscheweyh derivative" -- Conformable fractional inequalities -- New inequalities for h-quasiconvex functions -- Local fractional Inequalities -- "Some new Hermite-Hadamard type integral inequalities for twice differentiable generalized h_1 ; h_2 ; h_3 ; h_4 -convex mappings and their applications" -- Hardy's Type Inequalities Via Conformable Calculus -- Inequalities for Symmetrized or Anti-symmetrized Inner Products of Complex-Valued Functions Defined on an Interval -- Generalized Finite Hilbert Transform and Some Basic Inequalities -- Inequalities of Hermite-Hadamard Type for Composite Convex Functions -- Error Estimation for Approximate Solutions of Delay Volterra Integral Equations -- Harmonic and Trace Inequalities in Lipschitz Domains -- Dirichlet Beta Function via Generalized Mathieu Series Family -- Recent research on Levinson's inequality -- Integral Norm Inequalities for Various Operators on Differential Forms -- Hadamard integral inequality for the class of harmonically (s)-convex functions -- Norm Inequalities for Singular Integrals Related to Operators and Dirac-Harmonic Equations -- Inequalities for analytic functions defined by a fractional integral operator.

Sommario/riassunto

This volume presents cutting edge research from the frontiers of functional equations and analytic inequalities active fields. It covers the subject of functional equations in a broad sense, including but not limited to the following topics: Hyperstability of a linear functional equation on restricted domains Hyers-Ulam's stability results to a three point boundary value problem of nonlinear fractional order differential equations Topological degree theory and Ulam's stability analysis of a boundary value problem of fractional differential equations General Solution and Hyers-Ulam Stability of Duo Trigintic Functional Equation in Multi-Banach Spaces Stabilities of Functional Equations via Fixed Point Technique Measure zero stability problem for the Drygas functional equation with complex involution Fourier Transforms and Ulam Stabilities of Linear Differential Equations Hyers-Ulam stability of a discrete diamond-alpha derivative equation Approximate solutions of an interesting new mixed type additive-quadratic-quartic functional equation. The diverse selection of inequalities covered includes Opial, Hilbert-Pachpatte, Ostrowski, comparison of means, Poincare, Sobolev, Landau, Polya-Ostrowski, Hardy, Hermite-Hadamard, Levinson, and complex Korovkin type. The inequalities are also in the environments of Fractional Calculus and Conformable Fractional Calculus. Applications from this book's results can be found in many areas of pure and applied mathematics, especially in ordinary and partial differential equations and fractional differential equations. As such, this volume is suitable for researchers, graduate students and related seminars, and all science and engineering libraries. The exhibited thirty six chapters are self-contained and can be read independently and interesting advanced seminars can be given out of this book. .

2. Record Nr.	UNINA9910918601203321
Autore	Phogat Peeyush
Titolo	Electrochemical Devices : Principles to Applications // by Peeyush Phogat, Shreya Sharma, Ranjana Jha, Sukhvir Singh
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819605279 9789819605262
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (336 pages)
Collana	Engineering Materials, , 1868-1212
Altri autori (Persone)	SharmaShreya JhaRanjana SinghSukhvir
Disciplina	621
Soggetti	Physics Electrochemistry Materials Detectors Nanotechnology Solid state physics Applied and Technical Physics Sensors and biosensors Nanoengineering Electronic Devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Fundamentals of Electrochemistry -- Photoelectrochemical (PEC) Solar Cells -- Photoelectrochemical (PEC) Detectors -- Photoelectrochemical Water Splitting -- Electrochemical Sensors -- Electrochemical Capacitors: EDLCs and Pseudocapacitors -- Microstructural Aspects in Electrochemical Devices -- Future Perspectives and Challenges.
Sommario/riassunto	This book serves as a comprehensive guide for both beginners and researchers, offering insights into the diverse array of electrochemical devices and their intricate dependencies. It provides a comprehensive overview of electrochemical devices from fundamental principles to cutting-edge applications. By bringing together insights from materials

science, chemistry, physics, engineering, and beyond, it offers a holistic understanding of the underlying mechanisms, design strategies, and practical considerations associated with these devices. The book begins by exploring of the fundamental principles of electrochemistry, laying the groundwork for understanding electrochemical reactions, charge transfer processes, and device operation mechanisms. Building upon this foundation, it delves into various types of electrochemical devices, including solar cells, photodetectors, sensors, batteries, and more.
