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Autore	Segna, Domenico
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Autore	Rezaei Aderyani Safoura
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Altri autori (Persone)	SaadatiReza LiChenkuan AllahviranlooTofigh
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Nota di contenuto	Introduction -- The Hypergeometric, Supertrigonometric, And Superhyperbolic Functions.-The Wright, Supertrigonometric And Superhyperbolic Functions -- The Mittag-Leffler, Supertrigonometric, And Superhyperbolic Functions -- The Wiman, Supertrigonometric, And Superhyperbolic Functions -- The Prabhakar, Supertrigonometric, And Superhyperbolic Functions -- The Sonine, Supertrigonometric And Superhyperbolic Functions -- Other Special Functions, Supertrigonometric And Superhyperbolic Functions -- Preliminaries -- Multi Stability Of The Jensen Type Random Operator Equations In C*-Algebras -- Super Multi Stability Of Additive Functional Inequalities In Banach Algebras -- Multi Stability Of Tri-Additive Functional Inequalities In Unital C*-Algebras -- Multi Stability Of Fractional-Order Systems I -- Multi Stability Of Fractional-Order System II -- Fuzzy Topological Spaces -- Multi Stability Of Pseudo Stochastic Tri{Additive

Fuzzy Operator Inequalities In MVFC-\Diamond-Algebras -- Multi Stability Of Additive-Additive Fuzzy Functional Inequalities In MVFC-\Diamond-Ternary Algebras -- Multi Stability Of Pseudo Stochastic Additive Fuzzy Operator Inequalities In MVFB-Algebras -- Multi Stability Of Fractional-Order Volterra Equations In MVFB-Spaces -- Multi Stability Of Fractional-Order System I In MVFB-Spaces -- Multi Stability Of Fractional-Order System II In MVFB-Spaces -- The Matrix Mittag-Leffler Function And Nonlinear Fractional Integro-Differential Equations.

Sommario/riassunto

The main target of this book is to present a new concept of Ulam-type stability, i.e., multi-stability, through the classical, well-known special functions and to obtain the best approximation error estimates by a different concept of perturbation stability including fuzzy approaches for uncertainty considerations. This stability allows us to obtain diverse approximations depending on various special functions that are initially chosen and to evaluate maximal stability and minimal error which enable us to obtain a unique optimal solution of functional equations, inequalities, and fractional equations. Stability analysis in the sense of the Ulam and its different kinds has received considerable attention from the researchers. However, how to effectively generalize the Ulam stability problems and to evaluate optimized controllability and stability are new issues. The multi-stability not only covers the previous concepts but also considers the optimization of the problem and provides a comprehensive discussion of optimizing the different types of the Ulam stabilities of mathematical models used in the natural sciences and engineering disciplines with fuzzy attitudes. Besides, this book also deals with nonlinear differential equations with various boundary conditions or initial value problems, based on the matrix Mittag-Leffler function, fixed point theory, as well as Babenko's approach to study uniqueness and existence of solutions. In general, the benefits for the readers can be concluded as follows: 1. Evaluates maximal stability with minimal error to get a unique optimal solution. 2. Discusses an optimal method of the alternative to study existence, uniqueness, and different types of Ulam stabilities under special consideration of the fuzzy approaches. 3. Delves into the new study of boundary value problems of fractional integro-differential equations with integral boundary conditions and variable coefficients.