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Frontiers in Functional Equations and Analytic Inequalities

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Frontiers in Functional Equations and Analytic Inequalities

- Features self-contained chapters that can be read independently
- Presents cutting-edge research from the frontiers of functional equations and analytic inequalities active fields
- Contains an extensive list of references

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 athree point boundary value problem of nonlinear fractional order differential equations Topologicaldegree theory and Ulam's stability analysis of a boundary value problem of fractional differentialequations General Solution and Hyers-Ulam Stability of Duo TriginticFunctional Equation in Multi-Banach Spaces Stabilities of Functional Equations via Fixed PointTechnique Measure zero stabilityproblem for the Drygas functional equation with complex involution Fourier Transforms and UlamStabilities of Linear Differential Equations Hyers–Ulam stability of a discrete diamond–alpha derivative equation Approximatesolutions 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 environmentsof 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 partialdifferential equations and fractional differential equations. As such, this volume is suitable forresearchers, graduate students and related seminars, and all science and engineering libraries.