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Mathematical Analysis

Author(s): Shaini Pulickakunnel, Manikandan Rangaswamy, John Sebastian

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About the book

This monograph is intended for readers who want to explore potential areas of research within mathematical analysis. The extensive references included in each chapter can enable the researchers and scholars for in depth knowledge. This book contains twenty-one articles arising from the study of diverse fields such as the theory of functions of a real and complex variable, fixed point theory, spectral theory, approximation theory, wavelet analysis, functional analysis, harmonic analysis, the theory of ordinary and partial differential equations, stochastic partial differential equations, the theory of integral equations, calculus of variations and certain other mathematical disciplines. The concepts presented in each chapter of this book will pave the way for advanced research and create new knowledge in several fields of mathematical analysis.

Table of Contents

Preface / A novel system of generalized variational inclusion problems and its approximation solvability / Study of Picard-S hybrid iteration and its applications / Tripled fixed point theorems for contractive type mappings / A Sierpinski topology on a locale through $\text{Hom}(L, J)$ / Some study on nonlinear evolution equations using series expansion method / A study on the convergences of few iterations for the class of T-Zamfirescu operators / On codes over a finite ring and its related parameters / Characteristics of a graph's independence polynomial / Ideals with respect of frame homomorphism and its properties / Some fixed point results in geodesic spaces using compactness and measure of noncompactness / Fixed Point theorem in intuitionistic fuzzy metric spaces using compatible mappings of Type (R) / Common fixed point and periodic point theorems for T-contraction type mappings / Cartesian product of random walks / A look at inequalities for wavelet frames associated with the linear canonical transform / Role of asymptotic center technique in fixed point results of Suzuki nonexpansive mappings / Equivalence of two indexed integral methods for improper integral / On a new application of almost decreasing sequence to some specific series associated with [B] summation / Some analogues of Beurling's theorem for two step nilpotent Lie groups with MW condition / (?) – Contraction mapping in rectangular S_b – metric space / Multivalued contractions using Bipartite Graphs / Security control for fractional-order cyber physical complex networked systems and its application.

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