1. Record Nr.   UNISA996466564403316

   Titolo   Operator theory and differential equations / / Anatoly G. Kusraev,
                         Zhanna D. Totieva, editors

   Pubbl/distr/stampa   Cham, Switzerland : , : BirkhaÌuser, , [2021]
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   ISBN   3-030-49763-1

   Edizione   [1st ed. 2021.]

   Descrizione fisica   1 online resource (VIII, 341 p. 10 illus., 4 illus. in color.)

   Collana   Trends in mathematics

   Disciplina   515.724

   Soggetti   Operator theory

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Nota di bibliografia Includes bibliographical references.

   Nota di contenuto   Extinction In a Finite Time for Parabolic Equations of Fast Diffusion
                         Type on Manifolds -- Inverse Problems In The Multidimensional
                         Hyperbolic Equation With Rapidly Oscillating Absolute Term -- On The
                         Brezis-Lieb Lemma and Its Extensions -- On the Commutant of the
                         Generalized Backward Shift Operator in Weighted Spaces of Entire
                         Functions -- The Conditions of Global Boundedness for the Solutions of
                         Continuous Social Stratification Model -- Stochastic Test of a Minimal
                         Surface -- On Isomorphism of Some Functional Spaces under Action of
                         Two Dimensional Singular Integral Operators -- On One Class of
                         Solutions of The Darboux System -- Boolean Valued Analysis:
                         Background And Results -- Approximation Properties of Vallee Poussin
                         Means For Special Series of Ultraspherical Jacobi -- Laplace's Integrals
                         And Stability of The Open Flows of in Viscid Incompressible Fluid --
                         Spectral Properties of Killing Vector Fields of Constant Length And
                         Bounded Killing Vector Fields -- The Radon-Nikodym Theorem for
                         Disjointness ´Preserving Orthogonally Additive Operators -- On
                         Continuous Linear Right Inverse To Convolution Operator -- Long
                         Wavelength Asymptotics of Self-Oscillations of Viscous Incompressible
                         Fluid -- The convergence of the Fourier – Jacobi series in weighted
                         variable exponent Lebesgue spaces -- Hyperbolic B-potentials:
                         Properties and Inversion -- Some Properties of Sobolev Orthogonal
                         Polynomials Associated with Chebyshev Polynomials of the Second Kind
                         -- Structure of Essential Spectrum and Discrete Spectra of The Energy

Operator of Five-Electron Systems In The Hubbard Model. Doublet States -- On Coefficient Inverse Problems of Heat Conduction for Functionally Graded Materials -- Investigation Of Waves Processes In Inhomogeneous Cylindrical Waveguides -- Solution Of Some Class First-Order Quasilinear Partial Differential Equations. .

| Sommario/riassunto | This volume features selected papers from The Fifteenth International Conference on Order Analysis and Related Problems of Mathematical Modeling, which was held in Vladikavkaz, Russia, on 15 - 20th July 2019. Intended for mathematicians specializing in operator theory, functional spaces, differential equations or mathematical modeling, the book provides a state-of-the-art account of various fascinating areas of operator theory, ranging from various classes of operators (positive operators, convolution operators, backward shift operators, singular and fractional integral operators, partial differential operators) to important applications in differential equations, inverse problems, approximation theory, metric theory of surfaces, the Hubbard model, social stratification models, and viscid incompressible fluids. |