

Imaths

Generalized Inverse Operators H^s -Rmander Spaces, Interpolation, and Elliptic Problems Measure-valued Processes and Stochastic Flows Alexander Andreevych Boichuk Vladimir A. Mikhailets Andrey A. Dorogovtsev
Generalized Inverse Operators H^s -Rmander Spaces, Interpolation, and Elliptic Problems Measure-valued Processes and Stochastic Flows *Alexander Andreevych Boichuk Vladimir A. Mikhailets Andrey A. Dorogovtsev*

the book is devoted to the foundations of the theory of boundary value problems for various classes of systems of differential operator equations whose linear part is represented by fredholm operators of the general form a common point of view on numerous classes of problems that were traditionally studied independently of each other enables us to study in a natural way the theory of these problems to supplement and improve the existing results and in certain cases study some of these problems for the first time with the help of the technique of generalized inverse operators the vishik lyusternik method and iterative methods we perform a detailed investigation of the problems of existence bifurcations and branching of the solutions of linear and nonlinear boundary value problems for various classes of differential operator systems and propose new procedures for their construction for more than 11 years that have passed since the appearance of the first edition of the monograph numerous new publications of the authors in this direction have appeared in this connection it became necessary to make some additions and corrections to the previous extensively cited edition which is still of signifi cant interest for the researchers for researchers teachers post graduate students and students of physical and mathematical departments of universities contents preliminary information generalized inverse operators in banach spaces pseudoinverse operators in hilbert spaces boundary value problems for operator equations boundary value problems for systems of ordinary differential equations impulsive boundary value problems for systems of ordinary differential equations solutions of differential and difference systems bounded on the entire real axis

the monograph gives a detailed exposition of the theory of general elliptic operators scalar and matrix and elliptic boundary value problems in hilbert scales of H^s -Rmander function spaces this theory was constructed by the authors in a number of papers published in 2005 2009 it is distinguished by a systematic use of the method of interpolation with a functional parameter of abstract hilbert spaces and sobolev inner product spaces this method the theory and their applications are expounded for the first time in the monographic literature the monograph is written in detail and in a reader friendly style the complete proofs of theorems are given this monograph is intended for a wide range of mathematicians whose research interests concern with mathematical analysis and differential equations

this book discusses the systems of interacting particles evolving in the random media the focus is on the study of both the finite subsystems motion and the flow describing motion of all particles in the space the integral characteristics of the system and mass distribution are also covered and results are illustrated with examples

from turbulence theory synchronization and dna evolution

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