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Nota di contenuto	Stochastic analysis, groups of diffeomorphisms and lagrangian description of viscous incompressible fluid -- From topological homology: algebras with different properties of homological triviality -- Duality in stable spencer cohomologies -- On some problems of computational geometry and topology -- to Maslov's operational method (non-commutative analysis and differential equations) -- The problem of realization of homology classes from Poincare up to the present -- Oriented degree of Fredholm maps of non-negative index and its application to global bifurcation of solutions -- Fuchsian systems with reducible monodromy and the Riemann-Hilbert problem -- Finitely smooth normal forms of vector fields in the vicinity of a rest point -- Generalized degree of multi-valued mappings -- On fredholmian aspects of linear transmission problems -- Stationary solutions of nonlinear stochastic equations -- Continuation of solutions to elliptic equations and localization of singularities -- Properness of nonlinear elliptic differential operators in Hölder spaces.
Sommario/riassunto	This volume (a sequel to LNM 1108, 1214, 1334 and 1453) continues the presentation to English speaking readers of the Voronezh University press series on Global Analysis and Its Applications. The papers are selected from two Russian issues entitled "Algebraic questions of Analysis and Topology" and "Nonlinear Operators in Global Analysis". CONTENTS: YuE. Gliklikh: Stochastic analysis, groups of diffeomorphisms and Lagrangian description of viscous incompressible

fluid.- A.Ya. Helemskii: From topological homology: algebras with different properties of homological triviality.- V.V. Lychagin, L.V. Zil'bergleit: Duality in stable Spencer cohomologies.- O.R. Musin: On some problems of computational geometry and topology.- V.E. Nazaikinskii, B.Yu. Sternin, V.E. Shatalov: Introduction to Maslov's operational method (non-commutative analysis and differential equations).- Yu.B. Rudyak: The problem of realization of homology classes from Poincare up to the present.- V.G. Zvyagin, N.M. Ratiner: Oriented degree of Fredholm maps of non-negative index and its applications to global bifurcation of solutions.- A.A. Bolibruch: Fuchsian systems with reducible monodromy and the Riemann-Hilbert problem.- I.V. Bronstein, A.Ya. Kopanskii: Finitely smooth normal forms of vector fields in the vicinity of a rest point.- B.D. Gel'man: Generalized degree of multi-valued mappings.- G.N. Khimshiashvili: On Fredholmian aspects of linear transmission problems.- A.S. Mishchenko: Stationary solutions of nonlinear stochastic equations.- B. Yu. Sternin, V.E. Shatalov: Continuation of solutions to elliptic equations and localisation of singularities.- V.G. Zvyagin, V.T. Dmitrienko: Properness of nonlinear elliptic differential operators in Hilbert spaces.

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