

Applied Mathematical Sciences

Vladimir I. Arnold
Boris A. Khesin

Topological Methods in Hydrodynamics

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Vladimir I. Arnold, Boris A. Khesin



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Lectures on Topological Fluid Mechanics Mitchell A. Berger, Renzo L. Ricca, Louis H. Kauffman, Boris Khesin, H. Keith Moffatt, De Witt Sumners, 2009-05-28 Helmholtz's seminal paper on vortex motion 1858 marks the beginning of what is now called topological fluid mechanics After 150 years of work the field has grown considerably In the last several decades unexpected developments have given topological fluid mechanics new impetus benefiting from the impressive progress in knot theory and geometric topology on the one hand and in mathematical and computational fluid dynamics on the other This volume contains a wide ranging collection of up to date valuable research papers written by some of the most eminent experts in the field Topics range from fundamental aspects of mathematical fluid mechanics including topological vortex dynamics and magnetohydrodynamics integrability issues Hamiltonian structures and singularity formation to DNA tangles and knotted DNAs in sedimentation A substantial introductory chapter on knots and links covering elements of modern braid theory and knot polynomials as well as more advanced topics in knot classification provides an invaluable addition to this material

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Frontiers in Mathematical Analysis and Numerical Methods Jacques-Louis Lions, Ta-ch'ien Li, Daqian Li, 2004 This invaluable volume is a collection of articles in memory of Jacques Louis Lions a leading mathematician and the founder of the Contemporary French Applied Mathematics School The contributions have been written by his friends colleagues and students including C Bardos A Bensoussan S S Chern P G Ciarlet

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