1. Record Nr. UNISA996466495503316

Autore	Berger Mitchell A
Titolo	Lectures on Topological Fluid Mechanics [[electronic resource]] : Lectures given at the C.I.M.E. Summer School held in Cetraro, Italy, July 2 - 10, 2001 / / by Mitchell A. Berger, Louis H. Kauffman, Boris Khesin, H. Keith Moffatt, Renzo L. Ricca, De Witt Sumners ; edited by Renzo L. Ricca
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	1-280-38431-X 9786613562234 3-642-00837-2
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XII, 223 p.)
Collana	C.I.M.E. Foundation Subseries ; ; 1973
Classificazione	SI 850
Disciplina	532
Soggetti	Continuum physics Topology Dynamics Ergodic theory Functions of complex variables Classical and Continuum Physics Dynamical Systems and Ergodic Theory Several Complex Variables and Analytic Spaces Kongress. Cetraro <2001>
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Fondazione CIME."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Braids and Knots -- Topological Quantities: Calculating Winding, Writhing, Linking, and Higher Order Invariants -- Tangles, Rational Knots and DNA -- The Group and Hamiltonian Descriptions of Hydrodynamical Systems -- Singularities in Fluid Dynamics and their Resolution -- Structural Complexity and Dynamical Systems -- Random Knotting: Theorems, Simulations and Applications.
Sommario/riassunto	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.

2.

Record Nr.	UNISA996280650903316
Titolo	IEEE Std 1017-1985IEEE Recommended Practice for Field Testing Electric Submersible Pump Cable : IEEE Recommended Practice for Field Testing Electric Submersible Pump Cable / / Institute of Electrical and Electronics Engineers
Pubbl/distr/stampa	Piscataway, NJ, USA : , : IEEE, , 1984
ISBN	0-7381-4315-4
Descrizione fisica	1 online resource (ix, 24 pages) : illustrations
Disciplina	621.31924
Soggetti	Electric cables Submersible pumps
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This document presents procedures and test voltage values for acceptance and maintenance testing of ESP cable systems. It applies to

cable systems rated 3000 V and 5000 V. It is intended to apply only to this special purpose cable.