

1. Record Nr.	UNINA9910780892903321
Titolo	Braids [[electronic resource]] : introductory lectures on braids, configurations and their applications // editors, A. Jon Berrick, ... [et al.]
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2010
ISBN	1-282-76186-2 9786612761867 981-4291-41-2
Descrizione fisica	1 online resource (414 p.)
Collana	Lecture notes series / Institute for Mathematical Sciences, National University of Singapore, , 1793-0758 ; ; v. 19
Altri autori (Persone)	BerrickA. J (A. Jon)
Disciplina	514.224 516
Soggetti	Braid theory Representations of groups Algebraic topology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Tutorial on the braid groups / Dale Rolfsen -- Simplicial objects and homotopy groups / Jie Wu -- Introduction to configuration spaces and their applications / Frederick R. Cohen -- Configuration spaces, braids, and robotics / Robert Ghrist -- Braids and magnetic fields / Mitchell A. Berger -- Braid group cryptography / David Garber.
Sommario/riassunto	This book is an indispensable guide for anyone seeking to familiarize themselves with research in braid groups, configuration spaces and their applications. Starting at the beginning, and assuming only basic topology and group theory, the volume's noted expositors take the reader through the fundamental theory and on to current research and applications in fields as varied as astrophysics, cryptography and robotics. As leading researchers themselves, the authors write enthusiastically about their topics, and include many striking illustrations. The chapters have their origins in tutorials give