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Autore	Wiedemann, Helmut	
Titolo	2: Nonlinear and higher-order beam dynamics / Helmut Wiedemann	
Pubbl/distr/stampa	Berlin [etc.] : Springer, c1999	
ISBN	3540645047	
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Descrizione fisica	XVIII, 472 p. ; 25 cm.	
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Soggetti	Acceleratori di particelle Acceleratori lineari	
Collocazione	SALA DING 539.7 WIE.pa	WIE.pa01SALA DING 539.7
Lingua di pubblicazione	Inglese	
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2. Record Nr.	UNINA9910698648803321
Autore	Kashaev Rinat
Titolo	A Course on Hopf Algebras // by Rinat Kashaev
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031263064 9783031263057
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (173 pages)
Collana	Universitext, , 2191-6675
Disciplina	512.55
Soggetti	Associative rings Associative algebras Manifolds (Mathematics) Algebras, Linear Topological groups Lie groups Mathematical physics Algebra, Homological Associative Rings and Algebras Manifolds and Cell Complexes Linear Algebra Topological Groups and Lie Groups Mathematical Physics Category Theory, Homological Algebra Àlgebres de Hopf Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	This textbook provides a concise, visual introduction to Hopf algebras and their application to knot theory, most notably the construction of solutions of the Yang–Baxter equations. Starting with a reformulation of the definition of a group in terms of structural maps as motivation for

the definition of a Hopf algebra, the book introduces the related algebraic notions: algebras, coalgebras, bialgebras, convolution algebras, modules, comodules. Next, Drinfel'd's quantum double construction is achieved through the important notion of the restricted (or finite) dual of a Hopf algebra, which allows one to work purely algebraically, without completions. As a result, in applications to knot theory, to any Hopf algebra with invertible antipode one can associate a universal invariant of long knots. These constructions are elucidated in detailed analyses of a few examples of Hopf algebras. The presentation of the material is mostly based on multilinear algebra, with all definitions carefully formulated and proofs self-contained. The general theory is illustrated with concrete examples, and many technicalities are handled with the help of visual aids, namely string diagrams. As a result, most of this text is accessible with minimal prerequisites and can serve as the basis of introductory courses to beginning graduate students.
