

1. Record Nr.	UNINA9910970449603321
Autore	Diao Yuanan
Titolo	Geometric properties and problems of thick knots / / Yuanan Diao and Claus Ernst
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2009
ISBN	1-61324-629-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (91 p.)
Collana	Mathematics research developments series
Altri autori (Persone)	ErnstClaus
Disciplina	514/.2242
Soggetti	Knot theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Some basic facts of knot theory -- Thicknesses of knots -- Ropelengths of knots -- Smooth knots vs knots on the cubic lattice -- Global lower bound on ropelength of knots -- General lower bounds on ropelength of knots -- General upper bounds on ropelength of knots -- Ropelength upper bounds for special classes of knots -- The spectrum of powers realizable by thick knots -- Total curvature of thick knots -- The linking number of a thick link with two or more components -- Some open questions.
Sommario/riassunto	In this text, the authors first give a brief review of the basic concepts and terminologies such as the thickness of a knot and the rope length of a knot. They then review the main results in this field.