

1. Record Nr.	UNINA9910788023603321
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Titolo	Group theoretic cryptography // Maria Isabel Gonzalez Vasco, Universidad Rey Juan Carlos, Madrid, Spain, Rainer Steinwandt, Florida Atlantic University, Boca Raton, FL
Pubbl/distr/stampa	Boca Raton, Florida : , : CRC Press, , [2015] ©2015
ISBN	0-429-13660-9 1-4665-2723-4
Descrizione fisica	1 online resource (244 p.)
Collana	Chapman and Hall/CRC Cryptography and Network Security
Disciplina	005.82
Soggetti	Cryptography Data encryption (Computer science) Computer networks - Security measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	A Chapman and Hall book--Title page.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Dedication; Contents; List of Figures; Symbol Description; Preface; Part I: Preliminaries; Chapter 1: Mathematical background; Chapter 2: Basics on complexity; Chapter 3: Cryptology: An introduction; Part II: Public-Key Encryption; Chapter 4: Provable security guarantees; Chapter 5: Public-key encryption in the standard model; Chapter 6: Public-key encryption using infinite groups; Part III: Secret- Key Encryption; Chapter 7: Block ciphers; Chapter 8: Cryptographic hash functions and message authentication codes; Part IV: Other Cryptographic Constructions Chapter 9: Key establishment protocolsChapter 10: Signature and identification schemes; Part V: Appendix; Appendix A: Solutions to selected exercises; References
Sommario/riassunto	Group theoretic problems appear to be the most promising source of hard computational problems for deploying new cryptographic constructions. This reference focuses on the specifics of using nonabelian groups in the field of cryptography. It provides an introduction to cryptography (mostly asymmetric) with a focus on group theoretic constructions, making it the first book to use this

approach. The authors include all of the needed cryptographic and group theoretic concepts. They supply exercises at the end of each chapter, selected solutions in the back of the book, and suggestions for student

2. Record Nr.	UNINA9910841863803321
Titolo	Electro- and Magneto-Mechanics of Soft Solids : Constitutive Modelling, Numerical Implementations, and Instabilities // edited by Kostas Danas, Oscar Lopez-Pamies
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-48351-0
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (185 pages)
Collana	CISM International Centre for Mechanical Sciences, Courses and Lectures, , 2309-3706 ; ; 610
Disciplina	620.11897
Soggetti	Mechanics, Applied Solids Soft condensed matter Composite materials Polymers Solid Mechanics Soft Materials Composites
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	The elastic dielectric response of elastomers filled with liquid inclusions: From fundamentals to governing equations -- Modelling of homogeneous and composite non-linear electro-elastic elastomers -- A unified theoretical modeling framework for soft and hard magnetorheological elastomers -- Elastic localizations.
Sommario/riassunto	This book examines the electro- and magneto-mechanics of soft composite materials and structures, and focuses on magnetorheological elastomers (MREs) and dielectric elastomer

composites (DECs), which are composite materials that comprise ferromagnetic and high-dielectric/conducting filler nano- and micro-particles embedded in a soft polymeric matrix. This gives rise to a coupled magneto- and electro-mechanical response at the macroscopic (order of millimeters and larger) scale when they are subjected to magneto- electro-mechanical external stimuli. While such MRE and DEC materials and devices can become unstable at some critical electro-magneto-mechanical loading, their response may be well controlled in the post-instability regime. Moreover, recent advances on the complete electro-magneto-mechanical coupling are presented. All those aforementioned features motivate the operation of these devices in this unstable region to obtain controlled pattern formation, soft robotic motion and artificial muscles, controllable band-gap acoustic and electromagnetic properties, energy harvesting as well as actively controlled stiffness (for cell-growth). The book contains four individual chapters covering work on the fundamentals (O. Lopez-Pamies) and the modeling (M. Gei) of electroactive solids, the modeling of magnetoactive solids (K. Danas), and the analysis of elastic instabilities (Y. Fu).

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