

1. Record Nr.	UNINA9910744507103321
Autore	Khattar Dinesh
Titolo	Group Theory // by Dinesh Khattar, Neha Agrawal
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-21307-6
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (334 pages) : illustrations
Disciplina	574 512.2
Soggetti	Mathematics Algebra Cryptography Data encryption (Computer science) Engineering mathematics General Mathematics and Education Cryptology Engineering Mathematics Teoria de grups Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Group -- Finite Groups and Subgroups -- Cyclic Groups -- Permutation Groups -- Cosets and Lagrange's Theorem -- Normal Subgroups and Factor Groups -- Group Homomorphism and Isomorphism -- Automorphisms -- Direct Products -- Group Actions -- Sylow Theorems.
Sommario/riassunto	This textbook focuses on the basics and complex themes of group theory taught to senior undergraduate mathematics students across universities. The contents focus on the properties of groups, subgroups, cyclic groups, permutation groups, cosets and Lagrange's theorem, normal subgroups and factor groups, group homomorphisms and isomorphisms, automorphisms, direct products, group actions and Sylow theorems. Pedagogical elements such as end of chapter exercises

and solved problems are included to help understand abstract notions. Intermediate lemmas are also carefully designed so that they not only serve the theorems but are also valuable independently. The book is a useful reference to undergraduate and graduate students besides academics.
