

1. Record Nr.	UNINA9910797814603321
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Titolo	Group ring groups . Volume 2 Structure theorems of unit groups // Eric Jespers, Angel del Rio Mateos
Pubbl/distr/stampa	Berlin, Germany ; ; Boston, [Massachusetts] : , : De Gruyter, , 2016 ©2016
ISBN	3-11-041150-4 3-11-041275-6
Descrizione fisica	1 online resource (228 pages) : illustrations
Collana	De Gruyter Graduate
Classificazione	SK 260
Disciplina	512.4
Soggetti	Group rings Rings (Algebra)
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 indexes.
Nota di contenuto	Front matter -- Preface -- Contents -- 14. Free Groups -- 15. Hyperbolic geometry -- 16. Poincaré's Theorem -- 17. Fundamental polyhedra -- 18. Unit groups of orders in quaternion algebras -- 19. Virtually free-by-free groups -- References -- Index of Notation -- Index
Sommario/riassunto	This two-volume graduate textbook gives a comprehensive, state-of-the-art account of describing large subgroups of the unit group of the integral group ring of a finite group and, more generally, of the unit group of an order in a finite dimensional semi-simple rational algebra. Since the book is addressed to graduate students as well as young researchers, all required background on these diverse areas, both old and new, is included. Supporting problems illustrate the results and complete some of the proofs. Volume 1 contains all the details on describing generic constructions of units and the subgroup they generate. Volume 2 mainly is about structure theorems and geometric methods. Without being encyclopedic, all main results and techniques used to achieve these results are included. Basic courses in group theory, ring theory and field theory are assumed as background.