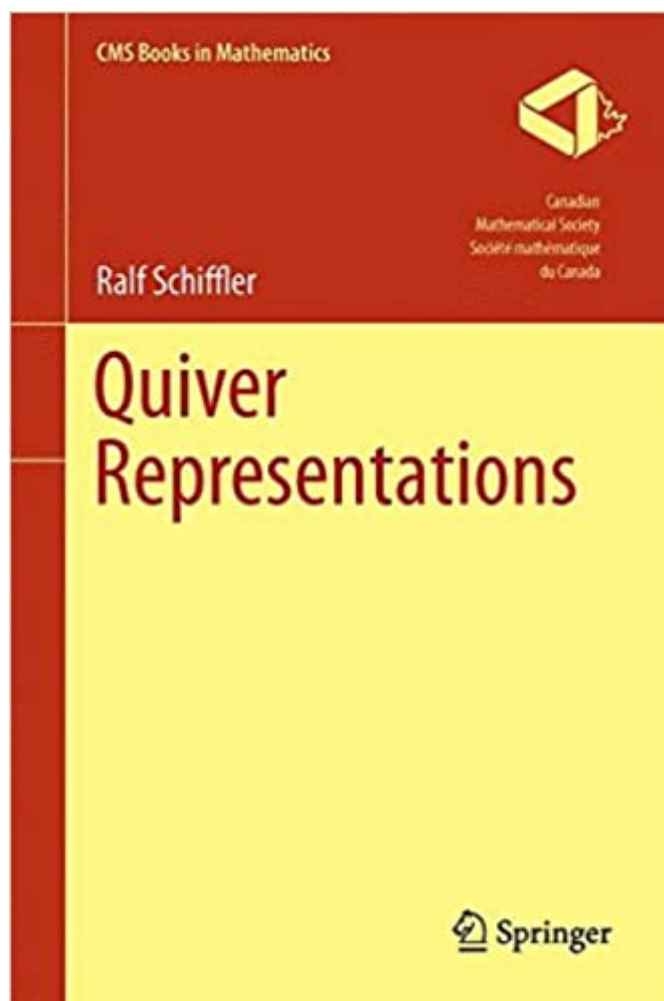


The book was found

Quiver Representations (CMS Books In Mathematics)



Synopsis

This book is intended to serve as a textbook for a course in Representation Theory of Algebras at the beginning graduate level. The text has two parts. In Part I, the theory is studied in an elementary way using quivers and their representations. This is a very hands-on approach and requires only basic knowledge of linear algebra. The main tool for describing the representation theory of a finite-dimensional algebra is its Auslander-Reiten quiver, and the text introduces these quivers as early as possible. Part II then uses the language of algebras and modules to build on the material developed before. The equivalence of the two approaches is proved in the text. The last chapter gives a proof of Gabriel's Theorem. The language of category theory is developed along the way as needed.

Book Information

Series: CMS Books in Mathematics

Hardcover: 230 pages

Publisher: Springer; 2014 edition (September 5, 2014)

Language: English

ISBN-10: 3319092030

ISBN-13: 978-3319092034

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 15.2 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #743,229 in Books (See Top 100 in Books) #147 in [Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Abstract](#) #153 in [Books > Science & Math > Mathematics > Pure Mathematics > Combinatorics](#) #2076 in [Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry](#)

Customer Reviews

“This book is an excellent text for undergraduates or beginning graduate students. The virtues of the book can be amplified by an instructor willing to go faster for those who have some prior exposure to basic algebra, or to go slower for students starting ab ovo. Secondly, a non-expert (in representation theory of quivers) may also benefit from this book in several ways. A reader will enjoy the clear and concise overview preceding each chapter and section.” (Alex Martsinkovsky, *Mathematical Reviews*, February, 2016)

“The book under review is an elementary introduction to the diagrammatic or quiver approach to the representation theory of

finite-dimensional algebras. It is perhaps the first such textbook addressed to advanced undergraduates or beginning graduate students. Teaching a course from this book should be a pleasant experience. Sets of problems are provided at the end of every one of its chapters, and little notes point to the literature. For a motivated student, the book is well suited for self-study. (Felipe Zaldivar, MAA Reviews, December, 2014)

This book is intended to serve as a textbook for a course in Representation Theory of Algebras at the beginning graduate level. The text has two parts. In Part I, the theory is studied in an elementary way using quivers and their representations. This is a very hands-on approach and requires only basic knowledge of linear algebra. The main tool for describing the representation theory of a finite-dimensional algebra is its Auslander-Reiten quiver, and the text introduces these quivers as early as possible. Part II then uses the language of algebras and modules to build on the material developed before. The equivalence of the two approaches is proved in the text. The last chapter gives a proof of Gabriel's Theorem. The language of category theory is developed along the way as needed.

A really superb exposition of a difficult subject. I highly recommend this to anyone interested in advancing their understanding of representation theory of algebras. Prof. Schiffler writes beautifully, and makes the material very clear.

[Download to continue reading...](#)

Quiver Representations (CMS Books in Mathematics) Convex Analysis and Nonlinear Optimization: Theory and Examples (CMS Books in Mathematics) Banach Space Theory: The Basis for Linear and Nonlinear Analysis (CMS Books in Mathematics) Foundations of Measurement Volume I: Additive and Polynomial Representations (Dover Books on Mathematics) Shark of the Confederacy: The Story of the CMS Alabama Lie Groups, Lie Algebras, and Representations: An Elementary Introduction (Graduate Texts in Mathematics) The Symmetric Group: Representations, Combinatorial Algorithms, and Symmetric Functions (Graduate Texts in Mathematics, Vol. 203) The Classical Groups: Their Invariants and Representations (Princeton Landmarks in Mathematics and Physics) READING ORDER: TAMI HOAG: BOOKS LIST OF THE BITTER SEASON, KOVAC/LISKA BOOKS, HENNESSY BOOKS, QUAID HORSES, DOUCET BOOKS, DEER LAKE BOOKS, ELENA ESTES BOOKS, OAK KNOLL BOOKS BY TAMI HOAG Alien Bodies: Representations of Modernity, 'Race' and Nation in Early Modern Dance Energy Accounts: Architectural Representations of Energy, Climate, and the Future Asian America through the Lens:

History, Representations, and Identities (Critical Perspectives on Asian Pacific Americans) A
Transnational Analysis of Representations of the US Filibusters in Nicaragua, 1855-1857
Representations of Slavery: Race and Ideology in Southern Plantation Museums Heathen, Hindoo,
Hindu: American Representations of India, 1721-1893 Women and the Machine: Representations
from the Spinning Wheel to the Electronic Age D-Modules and Spherical Representations. (MN-39)
(Princeton Legacy Library) The Classical Groups: Their Invariants and Representations Quantum
Theory, Groups and Representations: An Introduction Representations and Characters of Groups,
Second Edition

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)