Frank W. Anderson Kent R. Fuller

Rings and Categories of Modules

Second Edition

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Rings Categories Of Modules

Stuart A. Steinberg

Rings Categories Of Modules:

Rings and Categories of Modules Frank W. Anderson, Kent R. Fuller, 1992 This book is intended to provide a self contained account of much of the theory of rings and modules The theme of the text throughout is the relationship between the one sided ideal structure a ring may possess and the behavior of its categories of modules Following a brief outline of the foundations the book begins with the basic definitions and properties of rings modules and homomorphisms The remainder of the text gives comprehensive treatments of direct sums finiteness conditions the Wedderburn Artin Theorem the Jacobson radical the hom and tensor functions Morita equivalence and duality decomposition theory and semiperfect and perfect rings This second edition includes a chapter containing many of the classical results on Artinian rings that have helped form the foundation for much of contemporary research on the representation theory of Artinian rings and finite dimensional algebras

Foundations of Commutative Rings and Their Modules Fanggui Wang, Hwankoo Kim, 2024-09-02 This book provides an introduction to the foundations and recent developments in commutative algebra A look at the contents of the first five chapters shows that the topics covered are those usually found in any textbook on commutative algebra However this book differs significantly from most commutative algebra textbooks namely in its treatment of the Dedekind Mertens formula the small finitistic dimension of a ring Gorenstein rings valuation overrings the valuative dimension and the Nagata rings Chapter 6 goes on to present w modules over commutative rings as they are most commonly used in torsion theory and multiplicative ideal theory Chapter 7 deals with multiplicative ideal theory over integral domains Chapter 8 collects various results of pullbacks especially Milnor squares and D M constructions which are probably the most important example generating machines In Chapter 9 coherent rings of finite weak global dimensions are probed and the local ring of weak global dimension two is elaborated by combining homological tricks and methods of star operation theory Chapter 10 is devoted to the Grothendieck group of a commutative ring In particular the Bass Quillen problem is discussed Finally Chapter 11 introduces relative homological algebra especially where the related notions of integral domains appearing in classical ideal theory are defined and studied using the class of Gorenstein projective modules In Chapter 12 in this new edition properties of cotorsion theories are introduced and show for any cotorsion pair how to construct their homology theory Each section of the book is followed by a selection of exercises of varying difficulty This book appeals to a wide readership from graduate students to academic researchers interested in studying commutative algebra **Artinian Rings** Kent R. Groups, Rings And Modules With Applications M.R. Adhikari, A. Adhikari, 2003 Groups, Modules, and Fuller, 1989 Model Theory - Surveys and Recent Developments Manfred Droste, László Fuchs, Brendan Goldsmith, Lutz Strüngmann, 2017-06-02 This volume focuses on group theory and model theory with a particular emphasis on the interplay of the two areas The survey papers provide an overview of the developments across group module and model theory while the research papers present the most recent study in those same areas With introductory sections that make the topics easily

accessible to students the papers in this volume will appeal to beginning graduate students and experienced researchers alike As a whole this book offers a cross section view of the areas in group module and model theory covering topics such as DP minimal groups Abelian groups countable 1 transitive trees and module approximations. The papers in this book are the proceedings of the conference New Pathways between Group Theory and Model Theory which took place February 1 4 2016 in M lheim an der Ruhr Germany in honor of the editors colleague R diger G bel This publication is dedicated to Professor G bel who passed away in 2014 He was one of the leading experts in Abelian group theory Abelian Categories with Applications to Rings and Modules Nicolae Popescu, 1973 Duality in the Category of Modules Azmi Hanna, Ahmad Groups, Rings, Modules Maurice Auslander, David Buchsbaum, 2014-06-18 This classic monograph is Shamsuddin, 1984 geared toward advanced undergraduates and graduate students. The treatment presupposes some familiarity with sets groups rings and vector spaces The four part approach begins with examinations of sets and maps monoids and groups categories and rings The second part explores unique factorization domains general module theory semisimple rings and modules and Artinian rings Part three s topics include localization and tensor products principal ideal domains and applications of fundamental theorem The fourth and final part covers algebraic field extensions and Dedekind domains Exercises are provided at the end of each chapter Dover 2014 republication of the edition originally published by Harper Row Publishers New York 1974 See every Dover book in print at www doverpublications com **Modules and the Structure of** Rings Golan, 1991-04-24 This book offers vital background information on methods for solving hard classification problems of algebraic structures It explains how algebraists deal with the problem of the structure of modules over rings and how they make use of these structures to classify rings An Introduction to Rings and Modules A. J. Berrick, M. E. Keating, 2000-05-01 This concise introduction to ring theory module theory and number theory is ideal for a first year graduate student as well as being an excellent reference for working mathematicians in other areas Starting from definitions the book introduces fundamental constructions of rings and modules as direct sums or products and by exact sequences It then explores the structure of modules over various types of ring noncommutative polynomial rings Artinian rings both semisimple and not and Dedekind domains It also shows how Dedekind domains arise in number theory and explicitly calculates some rings of integers and their class groups About 200 exercises complement the text and introduce further topics This book provides the background material for the authors forthcoming companion volume Categories and Modules Armed with these two texts the reader will be ready for more advanced topics in K theory homological algebra and algebraic Revue Roumaine de Mathématiques Pures Et Appliquées ,1976 **Lattice-ordered Rings and Modules** number theory Stuart A. Steinberg, 2009-11-19 From the reviews Lattice ordered rings and modules are of interest both to algebraists and to functional analysts Previous authors have presented only those results that are needed for the applications that they have in mind Having a book like this one would be a great boon Both the algebraists and the analysts would benefit from having the

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