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Rings, Modules and Linear Algebra (Chapman and Hall ...
 Rings, Modules and Linear Algebra A further course in algebra describing the structure of Abelian groups and canonical forms of matrices through the study of rings and modules B. HARTLEY Professor of Mathematics University of Manchester T. O. HAWKES Lecturer in Mathematics [niversity of Fe arwick LONDON NEW YORK CHAPMAN AND HALL

Rings, Modules and Linear Algebra | B. Hartley, T.O ...
 Rings, Modules and Linear Algebra. Brian Hartley, Trevor O. Hawkes. this is an account of how a certain fundamental algebraic concept can be introduced, developed, and applied to solve some concrete algebraic problems. The book is divided into three parts. The first is concerned with defining concepts and terminology, assembling elementary facts, and developing the theory of factorization in a principal ideal domain.

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 Rings, Modules and Linear Algebra. Chapman and Hall mathematics series. Authors. Brian Hartley, Trevor O. Hawkes. Publisher. Chapman and Hall Limited, 1974. Length. 210 pages.

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Rings, Modules and Linear Algebra.: B. Hartley, T.O ...
 In Chapter 7 we extend the scope of linear algebra further, from vector spaces over elds to modules over rings. Specic rings considered include the ring Z of integers, rings of polynomials, and matrix rings. We discuss R-linear maps between twoR-modules, for various ringsR, with an emphasis on commutative rings with unit.

Linear Algebra Michael Taylor
 In mathematics, a module is one of the fundamental algebraic structures used in abstract algebra. A module over a ring is a generalization of the notion of vector space over a field, wherein the corresponding scalars are the elements of an arbitrary given ring and a multiplication is defined between elements of the ring and elements of the module. A module taking its scalars from a ring R is called an R-module. Thus, a module, like a vector space, is an additive abelian group; a product is defin

Module (mathematics) - Wikipedia
 Given a ring R, the set Map(R, R) of set functions f: R → R is an R-module with pointwise addition and R-multiplication given by (rf)(x) = r(f(x)) for r ∈ R. 2. Basic definitions Let us try to develop linear algebra in this general setting. Most of the definitions from usual linear algebra continue to make sense, but the theorems don't ...

reminderonmodules.pdf - REMINDER ON MODULES 1 Introduction ...
 Introduction to Groups, Rings and Fields HT and TT 2011 H. A. Priestley 0. Familiar algebraic systems: review and a look ahead. GRF is an ALGEBRA course, and speci cally a course about algebraic structures. This introductory-tory section revisits ideas met in the early part of Analysis I and in Linear Algebra I, to set the scene and provide ...

Introduction to Groups, Rings and Fields
 In mathematics, the tensor product of modules is a construction that allows arguments about bilinear maps (e.g. multiplication) to be carried out in terms of linear maps.The module construction is analogous to the construction of the tensor product of vector spaces, but can be carried out for a pair of modules over a commutative ring resulting in a third module, and also for a pair of a right ...

Tensor product of modules - Wikipedia
 Let R be a ring with 1. An element of the R-module M is called a torsion element if r m = 0 for some nonzero element r ∈ R. The set of torsion elements is denoted. Tor (M) = { m ∈ M : r m = 0 for some nonzero r ∈ R }. (a) Prove that if R is an integral domain, then Tor (M) is a submodule of M.

Module Theory | Problems in Mathematics
 Each undergraduate course of algebra begins with basic notions and results concerning groups, rings, modules and linear algebra. That is, it begins with simple notions and simple results. Our intention was to provide a collection of exercises which cover only the easy part of ring theory, what we have named the "Basics of Ring Theory".

Exercises in Basic Ring Theory by Grigore Calugareanu, P ...
 Beginning with standard topics in groups and ring theory, the authors then develop basic module theory, culminating in the fundamental structure theorem for finitely generated modules over a principal ideal domain. They then treat canonical form theory in linear algebra as an application of this fundamental theorem.

Algebra [electronic resource] : an Approach via Module ...
 In general, if R is a ring and S is a simple module over R, then, by Schur's lemma, the endomorphism ring of S is a division ring: every division ring arises in this fashion from some simple module. Much of linear algebra may be formulated, and remains correct, for modules over a division ring D instead of vector spaces over a field. Doing so it must be specified whether one is considering right or left modules, and some care is needed in properly distinguishing left and right in formulas.

Division ring - Wikipedia
 4. Model categories of ring, module, and algebra spectra 159 5. The proofs of the model structure theorems 163 6. The underlying R-modules of q-co brant R-algebras 167 Chapter VIII. Bous eld localizations of R-modules and algebras 173 1. Bous eld localizations of R-modules 174 2. Bous eld localizations of R-algebras 178 3. Categories of local ...

RINGS, MODULES, AND ALGEBRAS IN STABLE HOMOTOPY THEORY
 A module over a ring is a generalization of vector space over a field. The study of modules over a ring R provides us with an insight into the structure of R. In this module we shall develop ring and module theory leading to the fundamental theorems of Wedderburn and some of its applications.

MA377 Rings and Modules - Warwick
 Chapter 8 Rings, Integral Domains and Fields 187. 8.1 Rings 187. 8.2 Homomorphisms, Isomorphisms and Ideals 194. 8.3 Isomorphism Theorems 199. 8.4 Direct Sums of Rings 201. ... Appendix B Linear Algebra 445. B.1 Vector Spaces 445. B.2 Linear Transformations 452. B.3 Inner Product Spaces 462.

Abstract Algebra: An Introduction To Groups, Rings And ...
 Finally, we study modules, which roughly means we study linear algebra over certain rings rather than fields. This turns out to have powerful applications to ordinary linear algebra and to abelian groups.

An account of how a certain fundamental algebraic concept can be introduced, developed, and applied to solve some concrete algebraic problems.
 VI of Oregon lectures in 1962, Bass gave simplified proofs of a number of "Morita Theorems", incorporating ideas of Chase and Schanuel. One of the Morita theorems characterizes when there is an equivalence of categories mod-A R: mod-B for two rings A and B. Morita's solution organizes ideas so efficiently that the classical Wedderburn-Artin theorem is a simple consequence, and moreover, a similarity class [AJ in the Brauer group Br(k) of Azumaya algebras over a commutative ring k consists of all algebras B such that the corresponding categories mod-A and mod-B consisting of k-linear morphisms are equivalent by a k-linear functor. (For fields, Br(k) consists of similarity classes of simple central algebras, and for arbitrary commutative k, this is subsumed under the Azumaya [51] and Auslander-Goldman [60] Brauer group.) Numerous other instances of a wedding of ring theory and category (albeit a shot gun wedding!) are contained in the text. Furthermore, in, my attempt to further simplify proofs, notably to eliminate the need for tensor products in Bass's exposition, I uncovered a vein of ideas and new theorems lying wholly within ring theory. This constitutes much of Chapter 4-the Morita theorem is Theorem 4. 29-and the basis for it is a correspondence theorem for projective modules (Theorem 4. 7) suggested by the Morita context. As a by-product, this provides foundation for a rather complete theory of simple Noetherian rings-but more about this in the introduction.

This monograph arose from lectures at the University of Oklahoma on topics related to linear algebra over commutative rings. It provides an introduction of matrix theory over commutative rings. The monograph discusses the structure theory of a projective module.
 This textbook provides a self-contained course on the basic properties of modules and their importance in the theory of linear algebra. The first 11 chapters introduce the central results and applications of the theory of modules. Subsequent chapters deal with advanced linear algebra, including multilinear and tensor algebra, and explore such topics as the exterior product approach to the determinants of matrices, a module-theoretic approach to the structure of finitely generated Abelian groups, canonical forms, and normal transformations. Suitable for undergraduate courses, the text now includes a proof of the celebrated Wedderburn-Artin theorem which determines the structure of simple Artinian rings.

This volume provides a comprehensive introduction to module theory and the related part of ring theory, including original results as well as the most recent work. It is a useful and stimulating study for those new to the subject as well as for researchers and serves as a reference volume. Starting from a basic understanding of linear algebra, the theory is presented and accompanied by complete proofs. For a module M, the smallest Grothendieck category containing it is denoted by o[M] and module theory is developed in this category. Developing the techniques in o[M] is no more complicated than in full module categories and the higher generality yields significant advantages: for example, module theory may be developed for rings without units and also for non-associative rings. Numerous exercises are included in this volume to give further insight into the topics covered and to draw attention to related results in the literature.

This textbook is designed for students with at least one solid semester of abstract algebra,some linear algebra background, and no previous knowledge of module theory. Modulesand the Structure of Rings details the use of modules over a ring as a means of consideringthe structure of the ring itself--explaining the mathematics and "inductive reasoning" used in working on ring theory challenges and emphasizing modules insteadof rings.Stressing the inductive aspect of mathematical research underlying the formal deductivestyle of the literature, this volume offers vital background on current methods for solvinghard classification problems of algebraic structures. Written in an informal butcompletely rigorous style, Modules and the Structure of Rings clarifies sophisticatedproofs ... avoids the formalism of category theory ... aids independent study or seminarwork ... and supplies end-of-chapter problems.This book serves as an excellent primary text for upper-level undergraduate and graduatestudents in one-semester courses on ring or module theory-laying a foundation formore advanced study of homological algebra or module theory.

About This Book This book is meant to be used by beginning graduate students. It covers basic material needed by any student of algebra, and is essential to those specializing in ring theory, homological algebra, representation theory and K-theory, among others. It will also be of interest to students of algebraic topology, functional analysis, differential geometry and number theory. Our approach is more homological than ring-theoretic, as this leads the to many important areas of mathematics. This approach more quickly proach is also, we believe, cleaner and easier to understand. However, the more classical, ring-theoretic approach, as well as modern extensions, are also presented via several exercises and sections in Chapter Five. We have tried not to leave any gaps on the paths to proving the main theorem- at most we ask the reader to fill in details for some of the sideline results; indeed this can be a fruitful way of solidifying one's understanding.

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