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

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Rings Modules And Linear Algebra Mathematics Series

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Rings Modules And Linear Algebra Mathematics Series:

Rings, Modules and Linear Algebra B. Hartley,Trevor O. Hawkes,1970-09 An account of how a certain fundamental algebraic concept can be introduced developed and applied to solve some concrete algebraic problems   Rings, Modules and Linear Algebra Brian Hartley,Trevor O. Hawkes,1974   Rings, Modules and Linear Algebra B. Hartley,T.O. Hawkes,1970-09-01   Linear Algebra over Commutative Rings Bernard R. McDonald,2020-11-25 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

Algebra Carl Faith,2012-12-06 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 1 and Auslander Goldman 60J 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 corre spondence 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   **Book Catalog of the Library and Information Services Division: Shelf List catalog** Environmental Science Information Center. Library and Information Services Division,1977   Lectures on Modules and Rings Tsit-Yuen Lam,1999 This new book can be read independently from the first volume and may be used for lecturing seminar and self study or for general reference It focuses more on specific topics in order to introduce readers to a wealth of basic and useful ideas without the hindrance of heavy machinery or undue abstractions User friendly with its abundance of examples illustrating the theory at virtually every step the volume contains a large number of carefully chosen exercises to provide newcomers with practice while offering a rich additional source of information to experts A direct approach is used in order to present the material in an efficient and economic way thereby introducing readers to a considerable amount of interesting ring theory without being dragged through endless preparatory material   **Book catalog of the Library and Information Services Division** Environmental Science Information Center. Library and Information Services Division,1977   *Rings, Modules and Linear Algebra* Brian Hartley,1974   Modules and the

Structure of Rings Golan,2017-10-19 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 inductivereasoning 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   *Encyclopaedia of Mathematics (set)* Michiel Hazewinkel,1994-02-28 The Encyclopaedia of Mathematics is the most up to date authoritative and comprehensive English language work of reference in mathematics which exists today With over 7 000 articles from A integral to Zygmund Class of Functions supplemented with a wealth of complementary information and an index volume providing thorough cross referencing of entries of related interest the Encyclopaedia of Mathematics offers an immediate source of reference to mathematical definitions concepts explanations surveys examples terminology and methods The depth and breadth of content and the straightforward careful presentation of the information with the emphasis on accessibility makes the Encyclopaedia of Mathematics an immensely useful tool for all mathematicians and other scientists who use or are confronted by mathematics in their work The Enclyclopaedia of Mathematics provides without doubt a reference source of mathematical knowledge which is unsurpassed in value and usefulness It can be highly recommended for use in libraries of universities research institutes colleges and even schools   *Library of Congress Catalog* Library of Congress,1970

   Library of Congress Catalogs Library of Congress,1976   Modules and the Structure of Rings Golan,1991-04-24 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 inductivereasoning 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   *Further Algebra and Applications* Paul M. Cohn,2011-06-27 Further Algebra and Applications is the second volume of a new and revised edition of P M Cohn s classic three volume text Algebra which is widely regarded as one of the most outstanding introductory algebra textbooks For this edition the text has been reworked and updated into two self contained companion volumes covering advanced topics in algebra for second and third year undergraduate and postgraduate research students The first volume Basic Algebra covers the important results of algebra this companion volume focuses on the applications and covers the more advanced parts of topics such as groups and algebras homological algebra universal algebra general ring theory representations of finite groups coding theory languages and automata The author gives a clear account supported by worked examples with full proofs There are numerous exercises with occasional hints and some historical remarks   **Encyclopaedia of Mathematics** Michiel Hazewinkel,1988 V 1 A B v 2 C v 3 D Feynman Measure v 4 Fibonaccimethod H v 5 Lituus v 6 Lobachevskii Criterion for Convergence Optical Sigman Algebra v 7 Orbi t Rayleigh Equation v 8 Reaction Diffusion Equation Stirling Interpolation Fo rmula v 9 Stochastic Approximation Zygmund Class of Functions v 10 Subject Index Author Index   Linear Groups Martyn R. Dixon,Leonid A. Kurdachenko,Igor Ya. Subbotin,2020-04-03 Linear Groups The Accent on Infinite Dimensionality explores some of the main results and ideas in the study of infinite dimensional linear groups The theory of finite dimensional linear groups is one of the best developed algebraic theories The array of articles devoted to this topic is enormous and there are many monographs concerned with matrix groups ranging from old classical texts to ones published more recently However in the case when the dimension is infinite and such cases arise quite often the reality is quite different The situation with the study of infinite dimensional linear groups is like the situation that has developed in the theory of groups in the transition from the study of finite groups to the study of infinite groups which appeared about one hundred years ago It is well known that this transition was extremely efficient and led to the development of a rich and central branch of algebra Infinite group theory The hope is that this book can be part of a similar transition in the field of linear groups Features This is the first book dedicated to infinite dimensional linear groups This is written for experts and graduate students specializing in algebra and parallel disciplines This book discusses a very new theory and accumulates many important and useful results   *Which Degree?* ,1981   Exercises in Modules and Rings T.Y. Lam,2009-12-08 The idea of writing this book came roughly at the time of publication of my graduate text Lectures on Modules and Rings Springer GTM Vol 189 1999 Since that time teaching obligations and intermittent intervention of other projects caused prolonged delays in the work on this volume Only a lucky break in my schedule in 2006 enabled me to put the finishing touches on the completion of this long overdue book This book is intended to serve a dual purpose First it is designed as a problem book for Lectures As such it contains the statements and full solutions of the many exercises that appeared in Lectures Second this book is also offered as a reference and repository for general information in the theory of modules and rings that may be hard to find in the standard textbooks in the field As a companion volume to

Lectures this work covers the same math ematical material as its parent work namely the part of ring theory that makes substantial use of the notion of modules The two books thus share the same table of contents with the first half treating projective injective and flat modules homological and uniform dimensions and the second half dealing with noncommutative localizations and Goldie s theorems maximal rings of quotients Frobenius and quasi Frobenius rings conclud ing with Morita s theory of category equivalences and dualities **Exercises in Basic Ring Theory** Grigore Calugareanu,P. Hamburg,2013-03-09 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 This seems to be the part each student or beginner in ring theory or even algebra should know but surely trying to solve as many of these exercises as possible independently As difficult or impossible as this may seem we have made every effort to avoid modules lattices and field extensions in this collection and to remain in the ring area as much as possible A brief look at the bibliography obviously shows that we don t claim much originality one could name this the folklore of ring theory for the statements of the exercises we have chosen but this was a difficult task indeed the 28 titles contain approximatively 15 000 problems and our collection contains only 346 The real value of our book is the part which contains all the solutions of these exercises We have tried to draw up these solutions as detailed as possible so that each beginner can progress without skilled help The book is divided in two parts each consisting of seventeen chapters the first part containing the exercises and the second part the solutions

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