

PROBLEM BOOKS IN MATHEMATICS

T. W. Lam

# Exercises in Modules and Rings

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# Exercises In Modules And Rings Problem Books In Mathematics

**Carl Clifton Faith**





## **Exercises In Modules And Rings Problem Books In Mathematics:**

**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 mathematical 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 concluding with Morita's theory of category equivalences and dualities *Categorical, Homological and Combinatorial Methods in Algebra* Ashish K. Srivastava, André Leroy, Ivo Herzog, Pedro A. Guil Asensio, 2020-06-23 This book contains the proceedings of the AMS Special Session in honor of S K Jain's 80th birthday on Categorical Homological and Combinatorial Methods in Algebra held from March 16-18 2018 at Ohio State University Columbus Ohio The articles contained in this volume aim to showcase the current state of art in categorical homological and combinatorial aspects of algebra **Advances in Ring Theory** Sergio R. López-Permouth, Dinh Van Huynh, 2011-01-28 This volume consists of refereed research and expository articles by both plenary and other speakers at the International Conference on Algebra and Applications held at Ohio University in June 2008 to honor S K Jain on his 70th birthday The articles are on a wide variety of areas in classical ring theory and module theory such as rings satisfying polynomial identities rings of quotients group rings homological algebra injectivity and its generalizations etc Included are also applications of ring theory to problems in coding theory and in linear algebra *Contemporary Ring Theory 2011 - Proceedings Of The Sixth China-japan-korea International Conference On Ring Theory* Jin Yong Kim, Chan Huh, Yang Lee, Tai Keun Kwak, 2012-04-26 The study of noncommutative rings is a major area in modern algebra The structure theory of noncommutative rings was originally concerned with three parts The study of semi simple rings the study of radical rings and the construction of rings with given radical and semi simple factor rings Recently this has extended to many new parts The zero divisor theory containing the study of coefficients of zero dividing polynomials and the study of annihilators over noncommutative rings that is related to the K-theory conjecture the study of nil rings and Jacobson rings the study of applying ring theoretic properties to modules representation theory the study of relations between algebraic and concepts of other branches for example analytic and topological etc Thus noncommutative rings are



ubiquitous in mathematics and occur in numerous sciences This volume consists of a collection of original articles refereed by world experts that was presented at the Sixth China Japan Korea International Conference on Ring Theory These articles exhibit new ideas tools and techniques needed for successful research and investigation in noncommutative ring theory and show the trend of current research It is a useful resource book for beginners and advanced experts in ring theory

Lectures on Modules and Rings Tsit-Yuen Lam, 2012-12-06 Textbook writing must be one of the cruelest of self inflicted tortures Carl Faith Math Reviews 54 5281 So why didn't I heed the warning of a wise colleague especially one who is a great expert in the subject of modules and rings The answer is simple I did not learn about it until it was too late My writing project in ring theory started in 1983 after I taught a year long course in the subject at Berkeley My original plan was to write up my lectures and publish them as a graduate text in a couple of years My hopes of carrying out this plan on schedule were however quickly dashed as I began to realize how much material was at hand and how little time I had at my disposal As the years went by I added further material to my notes and used them to teach different versions of the course Eventually I came to the realization that writing a single volume would not fully accomplish my original goal of giving a comprehensive treatment of basic ring theory At the suggestion of Ulrike Schmickler Hirzebruch then Mathematics Editor of Springer Verlag I completed the first part of my project and published the write up in 1991 as *A First Course in Noncommutative Rings* GTM 131 hereafter referred to as First Course or simply FC *Algebra,  $K$ -Theory, Groups, and Education* Hyman Bass, Tsit-Yuen Lam, Andy R. Magid, 1999 This volume includes expositions of key developments over the past four decades in commutative and non commutative algebra algebraic  $K$  theory infinite group theory and applications of algebra to topology Many of the articles are based on lectures given at a conference at Columbia University honoring the 65th birthday of Hyman Bass Important topics related to Bass's mathematical interests are surveyed by leading experts in the field Of particular note is a professional autobiography of Professor Bass and an article by Deborah Ball on mathematical education The range of subjects covered in the book offers a convenient single source for topics in the field **A First Course in**

**Noncommutative Rings** Tsit-Yuen Lam, 2001-06-21 Aimed at the novice rather than the connoisseur and stressing the role of examples and motivation this text is suitable not only for use in a graduate course but also for self study in the subject by interested graduate students More than 400 exercises testing the understanding of the general theory in the text are included in this new edition **Exercises in Classical Ring Theory** T.Y. Lam, 2013-06-29 Based in large part on the

comprehensive First Course in Ring Theory by the same author this book provides a comprehensive set of problems and solutions in ring theory that will serve not only as a teaching aid to instructors using that book but also for students who will see how ring theory theorems are applied to solving ring theoretic problems and how good proofs are written The author demonstrates that problem solving is a lively process in Comments following many solutions he discusses what happens if a hypothesis is removed whether the exercise can be further generalized what would be a concrete example for the exercise



and so forth The book is thus much more than a solution manual

**Rings and Things and a Fine Array of Twentieth Century Associative Algebra** Carl Clifton Faith, 2004 This book surveys more than 125 years of aspects of associative algebras especially ring and module theory It is the first to probe so extensively such a wealth of historical development Moreover the author brings the reader up to date in particular through his report on the subject in the second half of the twentieth century Included in the book are certain categorical properties from theorems of Frobenius and Stickelberger on the primary decomposition of finite Abelian formulations of the latter by Krull Goldman and others Maschke's theorem on the representation theory of finite groups over a field and the fundamental theorems of Wedderburn on the structure of finite dimensional algebras Goldie and others A special feature of the book is the in depth study of rings with chain condition on annihilator ideals pioneered by Noether Artin and Jacobson and refined and extended by many later mathematicians Two of the author's prior works *Algebra Rings Modules and Categories I and II* Springer Verlag 1973 are devoted to the development of modern associative algebra and ring and module theory Those bibliography of over 1 600 references and is exhaustively indexed In addition to the mathematical survey the author gives candid and descriptive impressions of the last half of the twentieth century in Part II Snapshots of fellow graduate students at the University of Kentucky and at Purdue Faith discusses his Fulbright Nato Postdoctoral at Heidelberg and at the Institute for Advanced Study IAS at Princeton his year as a visiting scholar at Berkeley and the many acquaintances he met there and in subsequent travels in India Europe and most recently Barcelona Comments on the first edition Researchers in algebra should find it both full references as to the origin and development of the theorem I know of no other work in print which does this as thoroughly and as broadly John O'Neill University of Detroit at Mercy Part II Snapshots of Mathematicians of my age and younger will relish reading Snapshots James A Huckaba University of Missouri Columbia

*Groups, Rings and Algebras* Donald S. Passman, William Chin, James Osterburg, Declan Patrick Francis Quinn, 2006 This is a companion volume to the conference in honor of Donald S Passman held in Madison Wisconsin in June 2005 It contains research papers on Algebras Group Rings Hopf Algebras Invariant Theory Lie Algebras and their Enveloping Algebras Noncommutative Algebraic Geometry Noncommutative Rings and other topics The papers represent an important part of the latest research in these areas

**Mathematical Reviews**, 2007

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

**Algebraic Structures and Applications** Ahmed Laghribi, Andr, Leroy, 2025-09-24 This volume contains the proceedings of two conferences NonCommutative Rings and their Applications NCRA VIII and Quadratic Forms Rings and Codes QFRC II that were held in August 2023 at Artois University Lens France The book contains a few survey papers and many research articles The latter have been written in an accessible style and should be of interest to specialists researchers and graduate students The subjects cover classical ring theory e g Baer rings separativity problem group algebras quasi duo coding theory MacWilliams identities codes over Galois rings or from Lie algebras Quadratic forms are also present in two important and nicely written papers Finally some papers offer new perspectives moving from classical ring theory to universal algebras and non associative structures

Modules with Isomorphic Multiples and Rings with Isomorphic Matrix Rings Tsit-Yuen Lam, 1999

**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

**Subject Guide to Books in Print**, 1997 *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 Modules and the Structure of Rings details the use of modules over a ring as a means of considering the structure of the ring itself explaining the mathematics and inductive reasoning used in working on ring theory challenges and emphasizing modules instead of rings Stressing the inductive aspect of mathematical research underlying the formal deductive style of the literature this volume offers vital background on current methods for solving hard classification problems of algebraic structures Written in an informal but completely rigorous style Modules and the Structure of Rings clarifies sophisticated proofs avoids the formalism of category theory aids independent study or seminar work and supplies end of chapter problems This book serves as an excellent primary text for upper level undergraduate and graduate students in one semester courses on ring or module theory laying a foundation for more advanced study of homological algebra or module theory

**Associated and Attached Primes Over Noncommutative Rings** Scott Arthur Annin, 2002 A Tour of Torsion, Quotients, and Localization Matthew John

Rodriguez, 2002 **2-primal Rings** Gregory Todd Marks, 2000



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