

Graduate Texts in Mathematics

T. Y. Lam

Lectures on Modules and Rings



Springer

Lectures On Rings And Modules

Karl H. Hofmann



Lectures On Rings And Modules:

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

Introductory Lectures on Rings and Modules John A. Beachy, 1999-04-22 A first year graduate text or reference for advanced undergraduates on noncommutative aspects of rings and modules **Tulane University Ring and Operator Theory Year, 1970-1971** Karl H. Hofmann, 2006-11-15 *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 **Lectures on Rings and Modules** Joachim Lambek, 1966 **Ring and Module Theory** Toma Albu, Gary F. Birkenmeier, Ali Erdogan, Adnan Tercan, 2011-02-04 This book is a collection of invited papers and articles many presented at the 2008 International Conference on Ring and Module Theory The papers explore the latest in various areas of algebra including ring theory module theory and commutative algebra **Canadian Journal of Mathematics**, 1981-06 **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

Lectures on rings and modules, 1972 **Lectures on Rings and Modules ; Tulane University Ring and Operator Theory Year, 1970-1971**, 1972 Extensions of Rings and Modules Gary F. Birkenmeier, Jae Keol Park, S Tariq Rizvi, 2013-07-19 The extensions of rings and modules have yet to be explored in detail in a research monograph This book presents state of the art research and also stimulating new and further research Broken into three parts Part I begins with basic notions terminology definitions and a description of the classes of rings and modules Part II considers the transference of conditions between a base ring or module and its extensions And Part III utilizes the concept of a minimal essential extension with respect to a specific class a hull Mathematical interdisciplinary applications appear throughout Major applications of the ring and module theory to Functional Analysis especially C algebras appear in Part III make this book of interest to Algebra and Functional Analysis researchers Notes and exercises at the end of every chapter and open problems at the end of all three parts lend this as an ideal textbook for graduate or advanced undergraduate students

Ring Theory and Its Applications Dinh Van Huynh, S. K. Jain, Sergio R. López-Permouth, S. Tariq Rizvi, Cosmin S. Roman, 2014-02-21 This volume contains the proceedings of the Ring Theory Session in honor of T Y Lam s 70th birthday at the 31st Ohio State Denison Mathematics Conference held from May 25 27 2012 at The Ohio State University Columbus Ohio Included are expository articles and research papers covering topics such as cyclically presented modules Eggert s conjecture the Mittag Leffler conditions clean rings McCoy rings QF rings projective and injective modules Baer modules and Leavitt path algebras Graduate students and researchers in many areas of algebra will find this volume valuable as the papers point out many directions for future work in particular several articles contain explicit lists of open questions

Lectures on Rings and Modules, 1972 **Free Ideal Rings and Localization in General Rings** P. M. Cohn, 2006-06-08 Proving that a polynomial ring in one variable over a field is a principal ideal domain can be done by means of the Euclidean algorithm but this does not extend to more variables However if the variables are not allowed to commute giving a free associative algebra then there is a generalization the weak algorithm which can be used to prove that all one sided ideals are free This book presents the theory of free ideal rings first in detail Particular emphasis is placed on rings with a weak algorithm exemplified by free associative algebras There is also a full account of localization which is treated for general rings but the features arising in fir are given special attention Each section has a number of exercises including

some open problems and each chapter ends in a historical note

Ring Theory V1, 1988-06-01 *Ring Theory V1* 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

Lecture Notes On Algebraic Structure Of Lattice-ordered Rings Jingjing Ma, 2014-03-14 *Algebraic Structure of Lattice Ordered Rings* presents an introduction to the theory of lattice ordered rings and some new developments in this area in the last 10 15 years It aims to provide the reader with a good foundation in the subject as well as some new research ideas and topic in the field This book may be used as a textbook for graduate and advanced undergraduate students who have completed an abstract algebra course including general topics on group ring module and field It is also suitable for readers with some background in abstract algebra and are interested in lattice ordered rings to use as a self study book The book is largely self contained except in a few places and contains about 200 exercises to assist the reader to better understand the text and practice some ideas

Ring Theory V2, 1988-07-01 *Ring Theory V2* 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 approximately 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 *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 Encyclopaedia 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

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