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RINGS AND THEIR MODULES

Walter de Gruyter This book is an introduction to the theory of rings and modules that goes beyond what one normally obtains in a graduate course in abstract algebra. In addition to the presentation of standard topics in ring and module theory, it also covers category theory, homological algebra and even more specialized topics like injective envelopes and projective covers, reflexive modules and quasi-Frobenius rings, and graded rings and modules. The book is a self-contained volume written in a very systematic style: all proofs are clear and easy for the reader to understand and all arguments are based on materials contained in the book. A problem sets follow each section. It is suitable for graduate and PhD students who have chosen ring theory for their research subject.

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APPROXIMATIONS AND ENDOMORPHISM ALGEBRAS OF MODULES

VOLUME 1 - APPROXIMATIONS / VOLUME 2 - PREDICTIONS

Walter de Gruyter This monograph - now in its second revised and extended edition - provides a thorough treatment of module theory, a subfield of algebra. The authors develop an approximation theory as well as realization theorems and present some of its recent applications, notably to infinite-dimensional combinatorics and model theory. The book starts from basic facts and gradually develops the theory towards its present frontiers.

RELATIVE HOMOLOGICAL ALGEBRA

Walter de Gruyter This is the second revised edition of an introduction to contemporary relative homological algebra. It supplies important material essential to understand topics in algebra, algebraic geometry and algebraic topology. Each section comes with exercises providing practice problems for students as well as additional important results for specialists. The book is also suitable for an introductory course in commutative and ordinary homological algebra.

MODULES OVER DISCRETE VALUATION DOMAINS

Walter de Gruyter "In this book, modules over a specific class of rings, the discrete valuations domains, are considered. Such modules call for a special consideration, since they have specific properties and play an important role in various areas of algebra, especially of commutative algebra. The text is accompanied by exercises, historical remarks, links to related fields and open problems. It is useful for students, graduates studying algebra, young researchers, and experts."--BOOK JACKET.

ARITHMETICAL RINGS AND ENDOMORPHISMS

Walter de Gruyter GmbH & Co KG This book offers a comprehensive account of not necessarily commutative arithmetical rings, examining structural and homological properties of modules over arithmetical rings and summarising the interplay between

arithmetical rings and other rings, whereas modules with extension properties of submodule endomorphisms are also studied in detail. Graduate students and researchers in ring and module theory will find this book particularly valuable.

ABSTRACT ALGEBRA

AN INTRODUCTION WITH APPLICATIONS

Walter de Gruyter GmbH & Co KG This is a high level introduction to abstract algebra which is aimed at readers whose interests lie in mathematics and in the information and physical sciences. In addition to introducing the main concepts of modern algebra, the book contains numerous applications, which are intended to illustrate the concepts and to convince the reader of the utility and relevance of algebra today. In particular applications to Polya coloring theory, latin squares, Steiner systems and error correcting codes are described. Another feature of the book is that group theory and ring theory are carried further than is often done at this level. There is ample material here for a two semester course in abstract algebra. The importance of proof is stressed and rigorous proofs of almost all results are given. But care has been taken to lead the reader through the proofs by gentle stages. There are nearly 400 problems, of varying degrees of difficulty, to test the reader's skill and progress. The book should be suitable for students in the third or fourth year of study at a North American university or in the second or third year at a university in Europe, and should ease the transition to (post)graduate studies.

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ABSTRACT ALGEBRA

AN INTRODUCTION WITH APPLICATIONS

Walter de Gruyter GmbH & Co KG This is the third edition of the book. In addition to introducing the main concepts of modern algebra, new topics are added: categories and functors; an introduction to representations of finite groups; projective and injective modules; an introduction to noetherian rings and modules and to Hilbert's Nullstellensatz. There is ample material for a two semester course in

abstract algebra.

COMMUTATIVE ALGEBRA

Walter de Gruyter GmbH & Co KG This unique book on commutative algebra is divided into two parts in order to facilitate its use in several types of courses. The first introductory part covers the basic theory, connections with algebraic geometry, computational aspects, and extensions to module theory. The more advanced second part covers material such as associated primes and primary decomposition, local rings, M -sequences and Cohen-Macaulay modules, and homological methods.

NEUTROSOPHIC SETS AND SYSTEMS, BOOK SERIES, VOL. 32, 2020. AN INTERNATIONAL BOOK SERIES IN INFORMATION SCIENCE AND ENGINEERING

Infinite Study "Neutrosophic Sets and Systems" has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

K-THEORY OF FORMS. (AM-98), VOLUME 98

Princeton University Press The description for this book, K-Theory of Forms. (AM-98), Volume 98, will be forthcoming.

MODULES OVER DISCRETE VALUATION RINGS

Walter de Gruyter GmbH & Co KG This book provides the first systematic treatment of modules over discrete valuation domains, which play an important role in various areas of algebra, especially in commutative algebra. Many important results representing the state of the art are presented in the text along with interesting open problems. This updated edition presents new approaches on p -adic integers and modules, and on the determinability of a module by its automorphism group. Contents Preliminaries Basic facts Endomorphism rings of divisible and complete modules Representation of rings by endomorphism rings Torsion-free modules Mixed modules Determinity of modules by their endomorphism rings Modules with many endomorphisms or automorphisms

COMMUTATIVE ALGEBRA

PROCEEDINGS OF A WORKSHOP HELD IN SALVADOR, BRAZIL, AUG. 8-17, 1988

Springer The central theme of this volume is commutative algebra, with emphasis on special graded algebras, which are increasingly of interest in problems of algebraic geometry, combinatorics and computer algebra. Most of the papers have partly survey character, but are research-oriented, aiming at classification and structural results.

HOMOLOGICAL ALGEBRA

Princeton University Press When this book was written, methods of algebraic topology had caused revolutions in the world of pure algebra. To clarify the advances that had been made, Cartan and Eilenberg tried to unify the fields and to construct the framework of a fully fledged theory. The invasion of algebra had occurred on three fronts through the construction of cohomology theories for groups, Lie algebras, and associative algebras. This book presents a single homology (and also cohomology) theory that embodies all three; a large number of results is thus established in a general framework. Subsequently, each of the three theories is singled out by a suitable specialization, and its specific properties are studied. The starting point is the notion of a module over a ring. The primary operations are the tensor product of two modules and the groups of all homomorphisms of one module into another. From these, "higher order" derived operations are obtained, which enjoy all the properties usually attributed to homology theories. This leads in a natural way to the study of "functors" and of their "derived functors." This mathematical masterpiece will appeal to all mathematicians working in algebraic topology.

ABSTRACT ALGEBRA

APPLICATIONS TO GALOIS THEORY, ALGEBRAIC GEOMETRY, REPRESENTATION THEORY AND CRYPTOGRAPHY

Walter de Gruyter GmbH & Co KG A new approach to conveying abstract algebra, the area that studies algebraic structures, such as groups, rings, fields, modules, vector spaces, and algebras, that is essential to various scientific disciplines such as particle physics and cryptology. It provides a well written account of the theoretical foundations and it also includes a chapter on cryptography. End of chapter problems help readers with accessing the subjects.

MODELS, MODULES AND ABELIAN GROUPS

IN MEMORY OF A. L. S. CORNER

Walter de Gruyter This is a memorial volume dedicated to A. L. S. Corner, previously Professor in Oxford, who published important results on algebra, especially on the connections of modules with endomorphism algebras. The volume contains refereed contributions which are related to the work of Corner. It contains also an unpublished extended paper of Corner himself. A memorial volume with important contributions related to algebra.

CHARACTERS OF GROUPS AND LATTICES OVER ORDERS

FROM ORDINARY TO INTEGRAL REPRESENTATION THEORY

Walter de Gruyter GmbH & Co KG This is the first textbook leading coherently from classical character theory to the theory of lattices over orders and integral representations of finite groups. After the introduction to simple modules allowing a non degenerate invariant bilinear form in any characteristic the author illustrates step by step the approach given by Sin and Willems. Dirichlet characters and results on primes in arithmetic progressions are given as applications.

ABSTRACT ALGEBRA

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Walter de Gruyter A new approach to conveying abstract algebra, the area that studies algebraic structures, such as groups, rings, fields, modules, vector spaces, and algebras, that is essential to various scientific disciplines such as particle physics and cryptology. It provides a well written account of the theoretical foundations; also contains topics that cannot be found elsewhere, and also offers a chapter on cryptography. End of chapter problems help readers with accessing the subjects. This work is co-published with the Heldermann Verlag, and within Heldermann's Sigma Series in Mathematics."

RING AND MODULE THEORY

Springer Science & Business Media 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.

PROGRESS IN COMMUTATIVE ALGEBRA 1

COMBINATORICS AND HOMOLOGY

Walter de Gruyter This is the first of two volumes of a state-of-the-art survey article collection which originates from three commutative algebra sessions at the 2009 Fall Southeastern American Mathematical Society Meeting at Florida Atlantic University. The articles reach into diverse areas of commutative algebra and build a bridge between Noetherian and non-Noetherian commutative algebra. These volumes present current trends in two of the most active areas of commutative algebra: non-noetherian rings (factorization, ideal theory, integrality), and noetherian rings (the local theory, graded situation, and interactions with combinatorics and geometry). This volume contains combinatorial and homological surveys. The combinatorial papers document some of the increasing focus in commutative algebra recently on the interaction between algebra and combinatorics. Specifically, one can use combinatorial techniques to investigate resolutions and other algebraic structures as with the papers of Fløystad on Boij-Söderburg theory, of Geramita, Harbourne and Migliore, and of Cooper on Hilbert functions, of Clark on minimal poset resolutions and of Mermin on simplicial resolutions. One can also utilize algebraic invariants to understand combinatorial structures like graphs, hypergraphs, and simplicial complexes such as in the paper of Morey and Villarreal on edge ideals. Homological techniques have become indispensable tools for the study of noetherian rings. These ideas have yielded amazing levels of interaction with other fields like algebraic topology (via differential graded techniques as well as the foundations of homological algebra), analysis (via the study of D -modules), and combinatorics (as described in the previous paragraph). The homological articles the editors have included in this volume relate mostly to how homological techniques help us better understand rings and singularities both noetherian and non-noetherian such as in the papers by Roberts, Yao, Hummel and Leuschke.

RINGS, MODULES, AND CLOSURE OPERATIONS

Springer Nature This book presents a systematic exposition of the various applications of closure operations in commutative and noncommutative algebra. In addition to further advancing multiplicative ideal theory, the book opens doors to the various uses of closure operations in the study of rings and modules, with emphasis on commutative rings and ideals. Several examples, counterexamples, and exercises further enrich the discussion and lend additional flexibility to the way in which the book is used, i.e., monograph or textbook for advanced topics courses.

NEAR-RINGS AND NEAR-FIELDS

PROCEEDINGS OF THE CONFERENCE ON NEAR-RINGS AND NEAR-FIELDS FREDERICTON, NEW BRUNSWICK, CANADA, JULY 18-24, 1993

Springer Science & Business Media Near-Rings and Near-Fields opens with three invited lectures on different aspects of the history of near-ring theory. These are followed by 26 papers reflecting the diversity of the subject in regard to geometry, topological groups, automata, coding theory and probability, as well as the purely algebraic structure theory of near-rings. Audience: Graduate students of mathematics and algebraists interested in near-ring theory.

ABELIAN GROUPS, RINGS, MODULES, AND HOMOLOGICAL ALGEBRA

CRC Press About the book... In honor of Edgar Enochs and his venerable contributions to a broad range of topics in Algebra, top researchers from around the world gathered at Auburn University to report on their latest work and exchange ideas on some of today's foremost research topics. This carefully edited volume presents the refereed papers of the participants of these talks along with contributions from other veteran researchers who were unable to attend. These papers reflect many of the current topics in Abelian Groups, Commutative Algebra, Commutative Rings, Group Theory, Homological Algebra, Lie Algebras, and Module Theory. Accessible even to beginning mathematicians, many of these articles suggest problems and programs for future study. This volume is an outstanding addition to the literature and a valuable handbook for beginning as well as seasoned researchers in Algebra. about the editors... H. PAT GOETERS completed his undergraduate studies in mathematics and computer science at Southern Connecticut State University and received his Ph.D. in 1984 from the University of Connecticut under the supervision of William J. Wickless. After spending one year in a post-doctoral position in Wesleyan University under the tutelage of James D. Reid, Goeters was invited for a tenure track position in Auburn University by Ulrich F. Albrecht. Soon afterwards, William Ullery and Overtoun Jenda were hired, and so began a lively Algebra group. OVERTOUN M. G. JENDA received his bachelor's degree in Mathematics from Chancellor College, the University of Malawi. He moved to the U.S. 1977 to pursue graduate studies at University of Kentucky, earning his Ph.D. in 1981 under the supervision of Professor Edgar Enochs. He then returned to Chancellor College, where he was a lecturer (assistant professor) for three years. He moved to the University of Botswana for another three-year stint as a lecturer before moving back to the University of Kentucky as a visiting assistant professor in 1987. In 1988, he joined the Algebra research group at Auburn University.

GEOMETRIC ASPECTS OF DWORK THEORY

Walter de Gruyter Dieses zweibändige Werk versammelt Vorlesungen, gehalten in memoriam Professor Bernard Dwork (1923-1998), anlässlich eines dreimonatigen Vorlesungszyklus in Norditalien von Mai bis Juli 2001.

MODULES OVER DISCRETE VALUATION RINGS

Walter de Gruyter GmbH & Co KG This book provides the first systematic treatment of modules over discrete valuation domains, which play an important role in various areas of algebra, especially in commutative algebra. Many important results representing the state of the art are presented in the text along with interesting open problems. This updated edition presents new approaches on p -adic integers and modules, and on the determinability of a module by its automorphism group. Contents Preliminaries Basic facts Endomorphism rings of divisible and complete modules Representation of rings by endomorphism rings Torsion-free modules Mixed modules Determinity of modules by their endomorphism rings Modules with many endomorphisms or automorphisms

A CONCISE COURSE IN ALGEBRAIC TOPOLOGY

University of Chicago Press Algebraic topology is a basic part of modern mathematics, and some knowledge of this area is indispensable for any advanced work relating to geometry, including topology itself, differential geometry, algebraic geometry, and Lie groups. This book provides a detailed treatment of algebraic topology both for teachers of the subject and for advanced graduate students in mathematics either specializing in this area or continuing on to other fields. J. Peter May's approach reflects the enormous internal developments within algebraic topology over the past several decades, most of which are largely unknown to mathematicians in other fields. But he also retains the classical presentations of various topics where appropriate. Most chapters end with problems that further explore and refine the concepts presented. The final four chapters provide sketches of substantial areas of algebraic topology that are normally omitted from introductory texts, and the book concludes with a list of suggested readings for those interested in delving further into the field.

PHILOSOPHY OF GLOBALIZATION

Walter de Gruyter GmbH & Co KG Not so long ago, it seemed the intellectual positions on globalization were clear, with advocates and opponents making their respective cases in decidedly contrasting terms. Recently, however, the fronts have shifted dramatically. The aim of this publication is to contribute philosophical depth to the debates on globalization conducted within various academic fields -

principally by working out its normative dimensions. The interdisciplinary nature of this book's contributors also serves to scientifically ground the ethical-philosophical discourse on global responsibility. Though by no means exhaustive, the expansive scope of the works herein encompasses such other topics as the altering consciousness of space and time, and the phenomenon of globalization as a discourse, as an ideology and as a symbolic form.

MATHEMATICAL REVIEWS

METHODS OF GRADED RINGS

Springer Science & Business Media *The Category of Graded Rings.- The Category of Graded Modules.- Modules over Strongly Graded Rings.- Graded Clifford Theory.- Internal Homogenization.- External Homogenization.- Smash Products.- Localization of Graded Rings.- Application to Gradedability.- Appendix A: Some Category Theory.- Appendix B: Dimensions in an abelian Category.- Bibliography.- Index.-*

PROCESS ENGINEERING

ADDRESSING THE GAP BETWEEN STUDIES AND CHEMICAL INDUSTRY

Walter de Gruyter GmbH & Co KG *This textbook provides a comprehensive introduction to chemical process engineering, linking the fundamental theory and concepts to the industrial day-to-day practice. It bridges the gap between chemical sciences and the practical chemical industry. It enables the reader to integrate fundamental knowledge of the basic disciplines, to understand the most important chemical processes, and to apply this knowledge to the practice in the industry.*

FOUNDATIONS OF MODULE AND RING THEORY

Routledge *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 $\mathcal{O}[M]$ and module theory is developed in this category. Developing the techniques in $\mathcal{O}[M]$ 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.*

AN INTRODUCTION TO ABSTRACT ALGEBRA

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TRANSFORMATION GROUPS

Walter de Gruyter "This book is a jewel – it explains important, useful and deep topics in Algebraic Topology that you won't find elsewhere, carefully and in detail." Prof. Günter M. Ziegler, TU Berlin

A GUIDE TO MORPHOSYNTAX-PHONOLOGY INTERFACE THEORIES

HOW EXTRA-PHONOLOGICAL INFORMATION IS TREATED IN PHONOLOGY SINCE TRUBETZKOY'S GRENZSIGNALE

Walter de Gruyter This book reviews the history of the interface between morpho-syntax and phonology roughly since World War II. Structuralist and generative interface thinking is presented chronologically, but also theory by theory from the point of view of a historically interested observer who however in the last third of the book distills lessons in order to assess present-day interface theories, and to establish a catalogue of properties that a correct interface theory should or must not have. The book also introduces modularity, the rationalist theory of the (human) cognitive system that underlies the generative approach to language, from a Cognitive Science perspective. Modularity is used as a referee for interface theories in the book. Finally, the book locates the interface debate in the landscape of current minimalist syntax and phase theory and fosters intermodular argumentation: how can we use properties of morpho-syntactic theory in order to argue for or against competing theories of phonology (and vice-versa)?

MODULE THEORY

ENDOMORPHISM RINGS AND DIRECT SUM DECOMPOSITIONS IN SOME CLASSES OF MODULES

Springer Science & Business Media This book presents topics in module theory and ring theory: some, such as Goldie dimension and semiperfect rings are now considered classical and others more specialized, such as dual Goldie dimension, semilocal endomorphism rings, serial rings and modules.

COMPUTATIONS IN ALGEBRAIC GEOMETRY WITH MACAULAY 2

Springer Science & Business Media This book presents algorithmic tools for algebraic geometry, with experimental applications. It also introduces Macaulay 2, a computer algebra system supporting research in algebraic geometry, commutative algebra, and their applications. The algorithmic tools presented here are designed to serve readers wishing to bring such tools to bear on their own problems. The first part of the book covers Macaulay 2 using concrete applications; the second emphasizes details of the mathematics.

TRANSFORMATION GROUPS AND REPRESENTATION THEORY

Springer

METALS AND ALLOYS

INDUSTRIAL APPLICATIONS

Walter de Gruyter GmbH & Co KG Metals and Alloys continues the series of graduate textbooks on Industrial Chemistry by Mark A. Benvenuto. It shows the essential industrial applications, processes and chemistry background for the extraction of metals, as well as the production and applications of alloys. The book discusses how large scale and minor processes affect every-day life, challenges in prevention and removal of waste by-products and illustrates selected chemical processes for which efforts have been made to improve and "green" industrial production of metals and alloys. Sources for metals are sorted by metal and alloy and backed by basic chemical background information and process set up. Overviews on worldwide ore distribution, refined metal and alloy production numbers are another focus of the book. Discusses sources, key processes and applications. Connects what students learn in class to real, large-scale metals chemistry that makes modern life possible. Intended for students, graduate students and beginners in the

field of Chemistry, Chemical Process Engineering, Chemical Engineering and Materials Science. Visit degruyter.com for more information on books by Mark A. Benvenuto: *Industrial Chemistry* (2013), *Industrial Chemistry: For Advanced Students* (2015) and *Industrial Inorganic Chemistry* (2015). About the Author: Mark Anthony Benvenuto A Fellow of the American Chemical Society, he received his PhD in inorganic chemistry from the University of Virginia. After a post-doctoral fellowship at the Pennsylvania State University, he joined the University of Detroit Mercy, where he is now the Department Chairman and teaches an industrial chemistry course.

LAURENT SERIES RINGS AND RELATED RINGS

Walter de Gruyter GmbH & Co KG In this book, ring-theoretical properties of skew Laurent series rings $A((x; \varphi))$ over a ring A , where A is an associative ring with non-zero identity element are described. In addition, we consider Laurent rings and Malcev-Neumann rings, which are proper extensions of skew Laurent series rings.