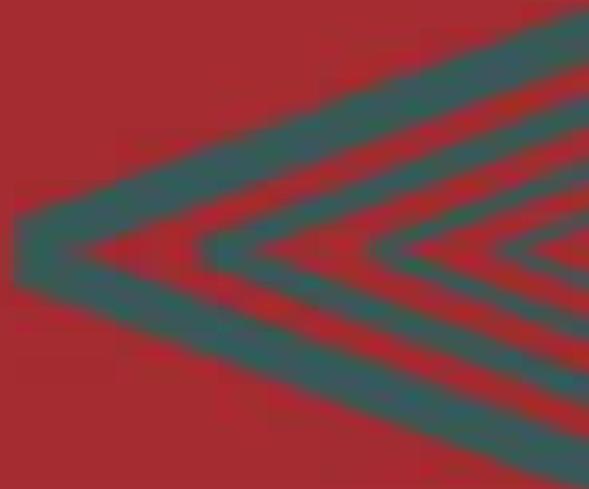


Algebra, Logic and Applications Series Volume 2

Model Theoretic Algebra

With particular emphasis on
Fields, Rings, Modules

Christian U Jensen
and
Helmut Lenzing



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Model Theoretic Algebra With Particular Emphasis On Fields Rings Modules

Patrick Vollmar



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Model Theoretic Algebra With Particular Emphasis on Fields, Rings, Modules Christian.U Jensen,2022-03-10 This volume highlights the links between model theory and algebra The work contains a definitive account of algebraically compact modules a topic of central importance for both module and model theory Using concrete examples particular emphasis is given to model theoretic concepts such as axiomizability Pure mathematicians especially algebraists ring theorists logicians model theorists and representation theorists should find this an absorbing and stimulating book **Introduction to Model**

Theory Philipp Rothmaler,2018-12-07 Model theory investigates mathematical structures by means of formal languages So called first order languages have proved particularly useful in this respect This text introduces the model theory of first order logic avoiding syntactical issues not too relevant to model theory In this spirit the compactness theorem is proved via the algebraically useful ultraproduct technique rather than via the completeness theorem of first order logic This leads fairly quickly to algebraic applications like Malcev s local theorems of group theory and after a little more preparation to Hilbert s Nullstellensatz of field theory Steinitz dimension theory for field extensions is obtained as a special case of a much more general model theoretic treatment of strongly minimal theories There is a final chapter on the models of the first order theory of the integers as an abelian group Both these topics appear here for the first time in a textbook at the introductory level and are used to give hints to further reading and to recent developments in the field such as stability or classification theory

Foundations of Module and Ring Theory Robert Wisbauer,2018-05-11 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 *Abelian Groups, Module Theory, and Topology* Dikran Dikranjan,2019-05-16

Features a stimulating selection of papers on abelian groups commutative and noncommutative rings and their modules and topological groups Investigates currently popular topics such as Butler groups and almost completely decomposable groups

Modules over Non-Noetherian Domains László Fuchs,Luigi Salce,2001 In this book the authors present both traditional and modern discoveries in the subject area concentrating on advanced aspects of the topic Existing material is studied in detail including finitely generated modules projective and injective modules and the theory of torsion and torsion free modules Some topics are treated from a new point of view Also included are areas not found in current texts for example

pure injectivity divisible modules uniserial modules etc Special emphasis is given to results that are valid over arbitrary domains The authors concentrate on modules over valuation and Prüfer domains but also discuss Krull and Matlis domains local reflexive and coherent domains The volume can serve as a standard reference book for specialists working in the area and also is a suitable text for advanced graduate algebra courses and seminars *Model Theory* Wilfrid Hodges,1993-03-11 Model theory is concerned with the notions of definition interpretation and structure in a very general setting and is applied to a wide range of other areas such as set theory geometry algebra and computer science This book provides an integrated introduction to model theory for graduate students **Colloquium Mathematicum** ,2017 Proceedings of the American Mathematical Society American Mathematical Society,2004 Contains the material formerly published in even numbered issues of the Bulletin of the American Mathematical Society **St. Petersburg Mathematical Journal** ,2002 **Mathematical Reviews** ,2006 Archiv der Mathematik ,2002 Combined Membership List of the American Mathematical Society and the Mathematical Association of America American Mathematical Society,1991 Lists for 19 include the Mathematical Association of America and 1955 also the Society for Industrial and Applied Mathematics **Collectanea Mathematica** ,2006 **Matematychni Studii : Proceedings of the Lviv Mathematical Society, V. 1-, No.1- 1997-** ,1997 Boletín de la Sociedad Matemática Mexicana Sociedad Matemática Mexicana,1999 **The Bulletin of Symbolic Logic** ,2002 **Choice** ,1991 Demonstratio mathematica ,2008 **JMSJ** Nihon Sūgakkai,1995 **New Technical Books** New York Public Library,1991

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