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# Almost Free Modules Set-theoretic Methods

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# Almost Free Modules

**Marcel A. Müller**



## **Almost Free Modules:**

**Almost Free Modules** Paul C. Eklof, Alan H. Mekler, 2002 This book provides a comprehensive exposition of the use of set theoretic methods in abelian group theory module theory and homological algebra including applications to Whitehead's Problem the structure of Ext and the existence of almost free modules over non perfect rings This second edition is completely revised and updated to include major developments in the decade since the first edition Among these are applications to cotorsion theories and covers including a proof of the Flat Cover Conjecture as well as the use of Shelah's pcf theory to construct almost free groups As with the first edition the book is largely self contained and designed to be accessible to both graduate students and researchers in both algebra and logic They will find there an introduction to powerful techniques which they may find useful in their own work

Abelian Groups and Modules K.M. Rangaswamy, David Arnold, 1996-08-16 Contains the proceedings of an international conference on abelian groups and modules held recently in Colorado Springs Presents the latest developments in abelian groups that have facilitated cross fertilization of new techniques from diverse areas such as the representation theory of posets model theory set theory and module theory

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

**Modules over Discrete Valuation Rings** Piotr A. Krylov, Askar A. Tuganbaev, 2018-09-24 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 Determinacy of modules by their endomorphism rings Modules with many endomorphisms or automorphisms

**Infinite Length Modules** Henning Krause, Claus M. Ringel, 2012-12-06 This volume presents the invited lectures of a conference devoted to Infinite Length Modules held at Bielefeld September 7-11 1998 Some additional surveys have been included in order to establish a unified picture The scientific organization of the conference was in the hands of K Brown Glasgow P M Cohn London I Reiten

Trondheim and C M Ringel Bielefeld The conference was concerned with the role played by modules of infinite length when dealing with problems in the representation theory of algebras The investigation of such modules always relies on information concerning modules of finite length for example simple modules and their possible extensions But the converse is also true recent developments in representation theory indicate that a full understanding of the category of finite dimensional modules even over a finite dimensional algebra requires consideration of infinite dimensional thus infinite length modules For instance the important notion of tameness uses one parameter families of modules or alternatively generic modules and they are of infinite length If one tries to exhibit a presentation of a module category it turns out to be essential to take into account the indecomposable modules which are algebraically compact or equivalently pure injective Specific methods have been developed over the last few years dealing with such special situations as group algebras of finite groups or noetherian rings and there are surprising relations to topology and geometry The conference outlined the present state of the art *CMUC*, 2016 **Advances in Cryptology - CRYPTO 2023** Helena Handschuh, Anna

Lysyanskaya, 2023-08-08 The five volume set LNCS 14081 14082 14083 14084 and 14085 constitutes the refereed proceedings of the 43rd Annual International Cryptology Conference CRYPTO 2023 The conference took place at Santa Barbara USA during August 19-24 2023 The 124 full papers presented in the proceedings were carefully reviewed and selected from a total of 479 submissions The papers are organized in the following topical sections Part I Consensus secret sharing and multi party computation Part II Succinctness anonymous credentials new paradigms and foundations Part III Cryptanalysis side channels symmetric constructions isogenies Part IV Faster fully homomorphic encryption oblivious RAM obfuscation secure messaging functional encryption correlated pseudorandomness proof systems in the discrete logarithm setting **Rendiconti** Università di Padova. Facoltà di scienze fisiche, matematiche e naturali. Seminario Matematico, 1991

*Studia scientiarum mathematicarum Hungarica*, 1975 *Rozprawy Matematyczne*, 1989 *Group Representations* Gregory Karpilovsky, 1992 This volume is divided into three parts Part I provides the foundations of the theory of modular representations Special attention is drawn to the Brauer Swan theory and the theory of Brauer characters A detailed investigation of quadratic symplectic and symmetric modules is also provided Part II is devoted entirely to the Green theory vertices and sources the Green correspondence the Green ring etc In Part III permutation modules are investigated with an emphasis on the study of  $p$  permutation modules and Burnside rings The material is developed with sufficient attention to detail so that it can easily be read by the novice although its chief appeal will be to specialists A number of the results presented in this volume have almost certainly never been published before **Projective Properties of Modules** Peter-Julius Herrmann, 1984 *Mathematical Reviews*, 2004 *Sūgaku Expositions*, 1993 *Illinois Journal of Mathematics*, 1979 **Carleton Mathematical Lecture Notes**, 1972 *Proceedings of the International Conference on Representations of Algebras* (Carleton University, Ottawa, 1974) Vlastimil Dlab, Peter Gabriel, 1974 *Pacific Journal of*

*Mathematics* ,1972     **L'Enseignement mathématique** ,1989 Vols for 1965 include a separately paged section Bulletin  
bibliographique     **Colloquium Mathematicum** ,2017

The book delves into Almost Free Modules. Almost Free Modules is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Almost Free Modules, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 4: Almost Free Modules in Specific Contexts
  - Chapter 5: Conclusion
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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Almost Free Modules.

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