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Ideals and Reality

Projective Modules
and Number of Generators of Ideals

$$\sqrt{I} = \sqrt{(f_1, \dots, f_{n-1})},$$

codimension $I = 1$

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Projective Modules And Number Of Generators

**Jon F. Carlson, L. Townsley, Luís Valero-
Elizondo, Mucheng Zhang**



Projective Modules And Number Of Generators:

Ideals and Reality Friedrich Ischebeck, Ravi A. Rao, 2005-11-22 Besides giving an introduction to Commutative Algebra the theory of commutative rings this book is devoted to the study of projective modules and the minimal number of generators of modules and ideals The notion of a module over a ring R is a generalization of that of a vector space over a field k The axioms are identical But whereas every vector space possesses a basis a module need not always have one Modules possessing a basis are called free So a finitely generated free R module is of the form R^n for some $n \in \mathbb{N}$ equipped with the usual operations A module is called projective iff it is a direct summand of a free one Especially a finitely generated R module P is projective iff there is an R module Q with $P \oplus Q \cong R^n$ for some n Remarkably enough there do exist nonfree projective modules Even there are nonfree P such that $P \oplus R^m \cong R^n$ for some m and n Modules P having the latter property are called stably free On the other hand there are many rings all of whose projective modules are free e.g. local rings and principal ideal domains A commutative ring is called local iff it has exactly one maximal ideal For two decades it was a challenging problem whether every projective module over the polynomial ring $k[X_1, \dots, X_n]$

Commutative Algebra Joseph Brennan, Aron Simis, 2025-09-22 Wolmer Vasconcelos was one of the giants in the development of Commutative Algebra in the latter half of the twentieth century and the first decades of the twenty first century This work collects in one place essays illustrating the important developments of his work particularly in commutative algebra that permits the reader to see the development of his important ideas and how they influence the development of mathematics today

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

Recent Advances in the Representation Theory of Rings and C^* -Algebras by Continuous Sections John R. Liukkonen, 1974 From March 20 through April 5 1973 the Mathematics Department of Tulane University organized a seminar on recent progress made in the general theory of the representation of rings and topological algebras by continuous sections in sheaves and bundles The seminar was divided into two main sections one concerned with sheaf representation the other with bundle representation The first was concerned with ringed spaces applications to logic universal algebra and lattice theory The second was almost exclusively devoted to C^* algebra and Hilbert space bundles or closely related material This collection represents the majority of the papers presented by seminar

participants with the addition of three papers which were presented by title *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 firsts are given special attention Each section has a number of exercises including some open problems and each chapter ends in a historical note **Rings with Polynomial Identities**

and Finite Dimensional Representations of Algebras Eli Aljadeff, Antonio Giambruno, Claudio Procesi, Amitai Regev, 2020-12-14 A polynomial identity for an algebra or a ring A is a polynomial in noncommutative variables that vanishes under any evaluation in A An algebra satisfying a nontrivial polynomial identity is called a PI algebra and this is the main object of study in this book which can be used by graduate students and researchers alike The book is divided into four parts Part 1 contains foundational material on representation theory and noncommutative algebra In addition to setting the stage for the rest of the book this part can be used for an introductory course in noncommutative algebra An expert reader may use Part 1 as reference and start with the main topics in the remaining parts Part 2 discusses the combinatorial aspects of the theory the growth theorem and Shirshov's bases Here methods of representation theory of the symmetric group play a major role Part 3 contains the main body of structure theorems for PI algebras theorems of Kaplansky and Posner the theory of central polynomials M Artin's theorem on Azumaya algebras and the geometric part on the variety of semisimple representations including the foundations of the theory of Cayley Hamilton algebras Part 4 is devoted first to the proof of the theorem of Razmyslov Kemer and Braun on the nilpotency of the nil radical for finitely generated PI algebras over Noetherian rings then to the theory of Kemer and the Specht problem Finally the authors discuss PI exponent and codimension growth This part uses some nontrivial analytic tools coming from probability theory The appendix presents the counterexamples of Golod and Shafarevich to the Burnside problem **Advances in Algebra** Jörg Feldvoss, Lauren Grimley, Drew Lewis, Andrei Pavelescu, Cornelius Pillen, 2019-02-27 This proceedings volume covers a range of research topics in algebra from the Southern Regional Algebra Conference SRAC that took place in March 2017 Presenting theory as well as computational methods featured survey articles and research papers focus on ongoing research in algebraic geometry ring theory group theory and associative algebras Topics include algebraic groups combinatorial commutative algebra computational methods for representations of groups and algebras group theory Hopf Galois theory hypergroups Lie superalgebras matrix analysis spherical and algebraic spaces and tropical algebraic geometry Since 1988 SRAC has been an important event for the algebra research community in the Gulf Coast Region and surrounding states building a strong

network of algebraists that fosters collaboration in research and education This volume is suitable for graduate students and researchers interested in recent findings in computational and theoretical methods in algebra and representation theory

Handbook of Constructive Mathematics Douglas Bridges,Hajime Ishihara,Michael Rathjen,Helmut

Schwichtenberg,2023-05-11 Constructive mathematics mathematics in which there exists always means we can construct is enjoying a renaissance fifty years on from Bishop s groundbreaking account of constructive analysis constructive mathematics has spread out to touch almost all areas of mathematics and to have profound influence in theoretical computer science This handbook gives the most complete overview of modern constructive mathematics with contributions from leading specialists surveying the subject s myriad aspects Major themes include constructive algebra and geometry constructive analysis constructive topology constructive logic and foundations of mathematics and computational aspects of constructive mathematics A series of introductory chapters provides graduate students and other newcomers to the subject with foundations for the surveys that follow Edited by four of the most eminent experts in the field this is an indispensable reference for constructive mathematicians and a fascinating vista of modern constructivism for the increasing number of researchers interested in constructive approaches

Encyclopaedia of Mathematics Michiel Hazewinkel,2012-12-06 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

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 $\text{Gen } M$ 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 Module Theory* Ibrahim Assem, Flávio U.

Coelho, 2024-11-21 Module theory is a fundamental area of algebra taught in most universities at the graduate level This textbook written by two experienced teachers and researchers in the area is based on courses given in their respective universities over the last thirty years It is an accessible and modern account of module theory meant as a textbook for graduate or advanced undergraduate students though it can also be used for self study It is aimed at students in algebra or students who need algebraic tools in their work Following the recent trends in the area the general approach stresses from the start the use of categorical and homological techniques The book includes self contained introductions to category theory and homological algebra with applications to Module theory and also contains an introduction to representations of quivers It includes a very large number of examples of all kinds worked out in detail mostly of abelian groups modules over matrix algebras polynomial algebras or algebras given by bound quivers In order to help visualise and analyse examples it includes many figures Each section is followed by exercises of all levels of difficulty both computational and theoretical with hints provided to some of them *Linear Algebra over Commutative Rings* Bernard R. McDonald, 2020-11-26 This monograph arose from lectures at the University of Oklahoma on topics related to linear algebra over commutative rings It provides an introduction of matrix theory over commutative rings The monograph discusses the structure theory of a projective module

The $\mathbb{R}\mathcal{O}(G)$ -Graded Equivariant Ordinary Homology of G -Cell Complexes with Even-Dimensional Cells for $G=\mathbb{Z}/p$, **Basic Algebra II** Nathan Jacobson, 2009-07-22 This classic text and standard reference comprises all subjects of a first year graduate level course including in depth coverage of groups and polynomials and extensive use of categories and functors 1989 edition **Cohomology Rings of Finite Groups** Jon F. Carlson, L. Townsley, Luís Valero-Elizondo, Mucheng Zhang, 2013-04-17 Group cohomology has a rich history that goes back a century or more Its origins are rooted in investigations of group theory and number theory and it grew into an integral component of algebraic topology In the last thirty years group cohomology has developed a powerful connection with finite group representations Unlike the early applications which were primarily concerned with cohomology in low degrees the interactions with representation theory involve cohomology rings and the geometry of spectra over these rings It is this connection to representation theory that we take as our primary motivation for this book The book consists of two separate pieces Chronologically the first part was the computer calculations of the mod 2 cohomology rings of the groups whose orders divide 64 The ideas and the programs for the calculations were developed over the last 10 years Several new features were added over the course of that time We had originally planned to include only a brief introduction to the calculations

However we were persuaded to produce a more substantial text that would include in greater detail the concepts that are the subject of the calculations and are the source of some of the motivating conjectures for the computations We have gathered together many of the results and ideas that are the focus of the calculations from throughout the mathematical literature

Encyclopaedia of Mathematics M. Hazewinkel,2013-12-01 **Ring Theory** Jose L. Bueso,Pascual Jara,Blas

Torrecillas,2007-01-05 The papers in this proceedings volume are selected research papers in different areas of ring theory including graded rings differential operator rings K theory of noetherian rings torsion theory regular rings cohomology of algebras local cohomology of noncommutative rings The book will be important for mathematicians active in research in ring theory Modules and Algebras Robert Wisbauer,1996-05-15 Module theory over commutative associative rings is usually

extended to noncommutative associative rings by introducing the category of left or right modules An alternative to this procedure is suggested by considering bimodules A refined module theory for associative rings is used to investigate the bimodule structure of arbitrary algebras and group actions on these algebras **First International Tainan-Moscow**

Algebra Workshop Y. Fong,U. Knauer,A. V. Mikhalev,2016-11-21 No detailed description available for First International Tainan Moscow Algebra Workshop **Mathematical Reviews** ,2006

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