

London Mathematical Society
Lecture Note Series 146

Cohen-Macaulay
Modules over
Cohen-Macaulay
Rings

YUJI YOSHINO

CAMBRIDGE UNIVERSITY PRESS

Maximal Cohen Macaulay Modules Over Cohen Macaulay Rings

Craig Huneke, Irena Swanson



Maximal Cohen Macaulay Modules Over Cohen Macaulay Rings:

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Stable Module Theory Maurice Auslander,Mark Bridger,1969 The notions of torsion and torsion freeness have played a very important role in module theory particularly in the study of modules over integral domains Furthermore the use of homological techniques in this connection has been well established It is the aim of this paper to extend these techniques and to show that this extension leads naturally to several new concepts e g k torsion freeness and Gorenstein dimension which are useful in the classification of modules and rings

Cohen-Macaulay Modules Over Cohen-Macaulay Rings Yuji Yoshino,1990 *Cohen-Macaulay Representations* Graham J. Leuschke,Roger Wiegand,2012-05-02 This book is a comprehensive treatment of the representation theory of maximal Cohen Macaulay MCM modules over local rings This topic is at the intersection of commutative algebra singularity theory and representations of groups and algebras Two introductory chapters treat the Krull Remak Schmidt Theorem on uniqueness of direct sum decompositions and its failure for modules over local rings Chapters 3 10 study the central problem of classifying the rings with only finitely many indecomposable MCM modules up to isomorphism i e rings of finite CM type The fundamental material ADE simple singularities the double branched cover Auslander Reiten theory and the Brauer Thrall conjectures is covered clearly and completely Much of the content has never before appeared in book form Examples include the representation theory of Artinian pairs and Burban Drozd s related construction in dimension two an introduction to the McKay correspondence from the point of view of maximal Cohen Macaulay modules Auslander Buchweitz s MCM approximation theory and a careful treatment of nonzero characteristic The remaining seven chapters present results on bounded and countable CM type and on the representation theory of totally reflexive modules

Maximal Cohen-Macaulay Modules Over Non-Isolated Surface Singularities and Matrix Problems Igor Burban,Yuriy Drozd,2017-07-13 In this article the authors develop a new method to deal with maximal Cohen Macaulay modules over non isolated surface singularities In particular they give a negative answer on an old question of Schreyer about surface

singularities with only countably many indecomposable maximal Cohen Macaulay modules Next the authors prove that the degenerate cusp singularities have tame Cohen Macaulay representation type The authors approach is illustrated on the case of k as well as several other rings This study of maximal Cohen Macaulay modules over non isolated singularities leads to a new class of problems of linear algebra which the authors call representations of decorated bunches of chains They prove that these matrix problems have tame representation type and describe the underlying canonical forms

Maximal Cohen-Macaulay Modules and Tate Cohomology Ragnar-Olaf Buchweitz, 2021-12-16 This book is a lightly edited version of the unpublished manuscript Maximal Cohen Macaulay modules and Tate cohomology over Gorenstein rings by Ragnar Olaf Buchweitz The central objects of study are maximal Cohen Macaulay modules over not necessarily commutative Gorenstein rings The main result is that the stable category of maximal Cohen Macaulay modules over a Gorenstein ring is equivalent to the stable derived category and also to the homotopy category of acyclic complexes of projective modules This assimilates and significantly extends earlier work of Eisenbud on hypersurface singularities There is also an extensive discussion of duality phenomena in stable derived categories extending Tate duality on cohomology of finite groups Another noteworthy aspect is an extension of the classical BGG correspondence to super algebras There are numerous examples that illustrate these ideas The text includes a survey of developments subsequent to and connected with Buchweitz's manuscript

Minimal Free Resolutions over Complete Intersections David Eisenbud, Irena Peeva, 2016-03-08 This book introduces a theory of higher matrix factorizations for regular sequences and uses it to describe the minimal free resolutions of high syzygy modules over complete intersections Such resolutions have attracted attention ever since the elegant construction of the minimal free resolution of the residue field by Tate in 1957 The theory extends the theory of matrix factorizations of a non zero divisor initiated by Eisenbud in 1980 which yields a description of the eventual structure of minimal free resolutions over a hypersurface ring Matrix factorizations have had many other uses in a wide range of mathematical fields from singularity theory to mathematical physics

Topics in the Homological Theory of Modules Over Commutative Rings Melvin Hochster, 1975 Contains expository lectures from the CBMS Regional Conference in Mathematics held at the University of Nebraska June 1974 This book deals mainly with developments and still open questions in the homological theory of modules over commutative usually Noetherian rings

Steps in Commutative Algebra R. Y. Sharp, 2000 Introductory account of commutative algebra aimed at students with a background in basic algebra

Determinantal Rings Winfried Bruns, Udo Vetter, 2006-11-14 Determinantal rings and varieties have been a central topic of commutative algebra and algebraic geometry Their study has attracted many prominent researchers and has motivated the creation of theories which may now be considered part of general commutative ring theory The book gives a first coherent treatment of the structure of determinantal rings The main approach is via the theory of algebras with straightening law This approach suggests and is simplified by the simultaneous treatment of the Schubert subvarieties of Grassmannian

Other methods have not been neglected however Principal radical systems are discussed in detail and one section is devoted to each of invariant and representation theory While the book is primarily a research monograph it serves also as a reference source and the reader requires only the basics of commutative algebra together with some supplementary material found in the appendix The text may be useful for seminars following a course in commutative ring theory since a vast number of notions results and techniques can be illustrated significantly by applying them to determinantal rings

Integral Closure of Ideals, Rings, and Modules Craig Huneke, Irena Swanson, 2006-10-12 Ideal for graduate students and researchers this book presents a unified treatment of the central notions of integral closure

Commutative Algebra David Eisenbud, 2013-12-01 Commutative Algebra is best understood with knowledge of the geometric ideas that have played a great role in its formation in short with a view towards algebraic geometry The author presents a comprehensive view of commutative algebra from basics such as localization and primary decomposition through dimension theory differentials homological methods free resolutions and duality emphasizing the origins of the ideas and their connections with other parts of mathematics Many exercises illustrate and sharpen the theory and extended exercises give the reader an active part in complementing the material presented in the text One novel feature is a chapter devoted to a quick but thorough treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it Applications of the theory and even suggestions for computer algebra projects are included This book will appeal to readers from beginners to advanced students of commutative algebra or algebraic geometry To help beginners the essential ideals from algebraic geometry are treated from scratch Appendices on homological algebra multilinear algebra and several other useful topics help to make the book relatively self contained Novel results and presentations are scattered throughout the text

Local Algebra Jean-Pierre Serre, 2012-12-06 The present book is an English translation of *Algebre Locale* Multiplicites published by Springer Verlag as no 11 of the Lecture Notes series The original text was based on a set of lectures given at the College de France in 1957 1958 and written up by Pierre Gabriel Its aim was to give a short account of Commutative Algebra with emphasis on the following topics a Modules as opposed to Rings which were thought to be the only subject of Commutative Algebra before the emergence of sheaf theory in the 1950s b Homological methods a la Cartan Eilenberg c Intersection multiplicities viewed as Euler Poincare characteristics The English translation done with great care by Chee Whye Chin differs from the original in the following aspects The terminology has been brought up to date e g cohomological dimension has been replaced by the now customary depth I have rewritten a few proofs and clarified or so I hope a few more A section on graded algebras has been added App III to Chap IV New references have been given especially to other books on Commutative Algebra Bourbaki whose Chap X has now appeared after a 40 year wait Eisenbud Matsumura Roberts I hope that these changes will make the text easier to read without changing its informal Lecture Notes character

The Geometry of Syzygies David Eisenbud, 2006-10-28 First textbook level account of basic examples and techniques in

this area Suitable for self study by a reader who knows a little commutative algebra and algebraic geometry already David Eisenbud is a well known mathematician and current president of the American Mathematical Society as well as a successful Springer author 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 **Commutative Ring Theory** Hideyuki Matsumura, 1989-05-25 This book explores commutative ring theory an important a foundation for algebraic geometry and complex analytical geometry **Algebraic Geometry and Commutative Algebra** Hiroaki Hijikata, Heisuke Hironaka, Masaki Maruyama, 2014-05-10 Algebraic Geometry and Commutative Algebra in Honor of Masayoshi Nagata presents a collection of papers on algebraic geometry and commutative algebra in honor of Masayoshi Nagata for his significant contributions to commutative algebra Topics covered range from power series rings and rings of invariants of finite linear groups to the convolution algebra of distributions on totally disconnected locally compact groups The discussion begins with a description of several formulas for enumerating certain types of objects which may be tabular arrangements of integers called Young tableaux or some types of monomials The next chapter explains how to establish these enumerative formulas with emphasis on the role played by transformations of determinantal polynomials and recurrence relations satisfied by them The book then turns to several applications of the enumerative formulas and universal identity including including enumerative proofs of the straightening law of Doubilet Rota Stein and computations of Hilbert functions of polynomial ideals of certain determinantal loci Invariant differentials and quaternion extensions are also examined along with the moduli of Todorov surfaces and the classification problem of embedded lines in characteristic p This monograph will be a useful resource for practitioners and researchers in algebra and geometry

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