

# Cohen- Macaulay rings

**WINFRIED BRUNS  
& JÜRGEN HERZOG**

**REVISED EDITION**

# Cohen Macaulay Rings

**Lawrence Joel Marx**



## **Cohen Macaulay Rings:**

*One-Dimensional Cohen-Macaulay Rings* Eben Matlis, 2006-11-15      **Cohen-Macaulay Rings** Winfried Bruns, H. Jürgen Herzog, 1998-06-18 In the last two decades Cohen Macaulay rings and modules have been central topics in commutative algebra This book meets the need for a thorough self contained introduction to the homological and combinatorial aspects of the theory of Cohen Macaulay rings Gorenstein rings local cohomology and canonical modules A separate chapter is devoted to Hilbert functions including Macaulay s theorem and numerical invariants derived from them The authors emphasize the study of explicit specific rings making the presentation as concrete as possible So the general theory is applied to Stanley Reisner rings semigroup rings determinantal rings and rings of invariants Their connections with combinatorics are highlighted e g Stanley s upper bound theorem or Ehrhart s reciprocity law for rational polytopes The final chapters are devoted to Hochster s theorem on big Cohen Macaulay modules and its applications including Peskine Szpiro s intersection theorem the Evans Griffith syzygy theorem bounds for Bass numbers and tight closure Throughout each chapter the authors have supplied many examples and exercises which combined with the expository style will make the book very useful for graduate courses in algebra As the only modern broad account of the subject it will be essential reading for researchers in commutative algebra      **Cohen-Macaulay Modules Over Cohen-Macaulay Rings** Yūji Yoshino, 1990 The purpose of these notes is to explain in detail some topics on the intersection of commutative algebra representation theory and singularity theory They are based on lectures given in Tokyo but also contain new research      1-dimensional Cohen-Macaulay Rings Eben Matlis, 1973-01-01      **On the Homology of Local Cohen-Macaulay Rings** Alan B. Evans, 1979      **Maximal Cohen-Macaulay Modules Over Cohen-Macaulay Rings** Y. Yoshino, 1990 The purpose of these notes is to explain in detail some topics on the intersection of commutative algebra representation theory and singularity theory They are based on lectures given in Tokyo but also contain new research It is the first cohesive account of the area and will provide a useful synthesis of recent research for algebraists      *Cohen-Macaulay Rings with Monomial Gradings* Lawrence Joel Marx, 1979      Cohen-Macaulay Rings and Ideal Theory in Rings of Invariants of Algebraic Groups Ronald Edward Kutz, 1972      **Cohen-Macaulay Modules Over Cohen-Macaulay Rings** Yuji Yoshino, 1990      Cohen-Macaulay Modules Over Cohen-Macaulay Rings, 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

*Arithmetically Cohen-Macaulay Sets of Points in  $P^1 \times P^1$*  Elena Guardo,Adam Van Tuyl,2015-11-25 This brief presents a solution to the interpolation problem for arithmetically Cohen Macaulay ACM sets of points in the multiprojective space  $P^1 \times P^1$  It collects the various current threads in the literature on this topic with the aim of providing a self contained unified introduction while also advancing some new ideas The relevant constructions related to multiprojective spaces are reviewed first followed by the basic properties of points in  $P^1 \times P^1$  the bigraded Hilbert function and ACM sets of points The authors then show how using a combinatorial description of ACM points in  $P^1 \times P^1$  the bigraded Hilbert function can be computed and as a result solve the interpolation problem In subsequent chapters they consider fat points and double points in  $P^1 \times P^1$  and demonstrate how to use their results to answer questions and problems of interest in commutative algebra Throughout the book chapters end with a brief historical overview citations of related results and where relevant open questions that may inspire future research Graduate students and researchers working in algebraic geometry and commutative algebra will find this book to be a valuable contribution to the literature

*Homological dimensions and Cohen-Macaulay rings* Parviz Sahandi,2011

[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

*Commutative Rings* Stanisław Balcerzyk,Tadeusz Józefiak,1989

**Cohen-Macaulay Quotients of Polynomial Rings** Gerald Allen Reisner,1974

**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

Cohen-Macaulay Rings, 1999      Topics in the Homological Theory of Modules Over Commutative Rings Melvin

Hochster, 1975-12-31 This volume contains expository lectures by Melvin Hochster from the CBMS Regional Conference in Mathematics held at the University of Nebraska June 1974 The lectures deal mainly with recent developments and still open questions in the homological theory of modules over commutative usually Noetherian rings A good deal of attention is given to the role big Cohen-Macaulay modules play in clearing up some of the open questions A modest knowledge of commutative rings and familiarity with the long exact sequences for Tor and Ext should suffice as a background for the reader

**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

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