



Buchsbaum Rings and Applications: An Interaction Between Algebra, Geometry and Topology

Jurgen Stuckrad, Wolfgang Vogel

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Da die algebraische Geometrie wesentlich vom Fundamentalsatz der Algebra ausgeht, den man nur deshalb in der gewohnten allgemeinen Form aussprechen kann, weil man dabei die Vielfachheit der Lösungen in Betracht zieht, so muß man auch bei jedem Resultat der algebraischen Geometrie beim Zuriickschreiten die gemeinsame Quelle wiederfinden. Das wäre aber nicht mehr möglich, wenn man auf dem Wege das Werkzeug verlore, welches den Fundamentalsatz fruchtbar und bedeutungsreich macht. Francesco Severi Abh. Math. Sem. Hansischen Univ. 15 (1943), p. 100 This book describes interactions between algebraic geometry, commutative and homological algebra, algebraic topology and combinatorics. The main object of study are Buchsbaum rings. The basic underlying idea of a Buchsbaum ring is a continuation of the well-known concept of a Cohen-Macaulay ring, its necessity being created by open questions of algebraic geometry and algebraic topology. The theory of Buchsbaum rings started from a negative answer to a problem of David A. Buchsbaum. The concept of this theory was introduced in our joint paper published in 1973.

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Buchsbaum rings and applications: An interaction between algebra, geometry and topology, by Jürgen Stückrad and Wolfgang Vogel. Thus were Buchsbaum rings created. One calls a local ring a Buchsbaum ring if, for all ideals J that are generated by $\dim R$ elements and are primary to the maximal ideal, one has that $\text{length}(R/J) - \text{multiplicity}(R/J)$ is a constant not depending on J . Cohen-Macaulay rings are those Buchsbaum rings for which the constant is zero. After a lovely Chapter 0 in which the basic ideas of commutative algebra are reviewed and a rather technical Chapter 1, which characterizes Buchsbaum rings and modules, one is treated to a series of topics of more general interest. Buchsbaum Rings and Applications book. Read reviews from world's largest community for readers. Da die algebraische Geometrie wesentlich vom Fundamentals... Goodreads helps you keep track of books you want to read. Start by marking "Buchsbaum Rings and Applications: An Interaction Between Algebra, Geometry and Topology" as Want to Read: Want to Read saving... Want to Read. Topology, Geometry and Gauge Fields has been added to your Cart. Add to Cart. Buy Now. The focus of the book under review is the interaction between topology, geometry and gauge fields. The book thus serves as both a solid and an enticing introduction to the mathematics required for the geometric formulation of gauge theory. Self-study and employment as a textbook are aided by 228 exercises peppered throughout the text. (Peter R. Law, Mathematical Reviews, August, 2013). The author carries on the study on the program initiated in his book Topology, geometry and gauge fields. Foundations. There are 228 exercises that essentially constitute fragments of proofs of theorems. Main Buchsbaum Rings and Applications: An Interaction Between Algebra, Geometry and Topology. Mark as downloaded. Buchsbaum Rings and Applications: An Interaction Between Algebra, Geometry and Topology. Jürgen Stückrad and Wolfgang Vogel. Year: 1987.

Stanley-Reisner rings of Buchsbaum* complexes are studied by means of their quotients modulo a linear system of parameters. The socle of these quotients is computed. Extending a recent result by Novik and Swartz for orientable homology manifolds without boundary, it is shown that modulo a part of their socle these quotients are level algebras. This provides new restrictions on the face vectors of Buchsbaum* complexes. arXiv:1006.4393v1 [math.AC] 22 Jun 2010. [19] J. Stückrad, W. Vogel: Buchsbaum rings and applications. An interaction between algebra, geometry. and topology, Springer-Verlag, Berlin, 1986. [20] E. Swartz, Face enumeration: From spheres to manifolds, J. Eur. Math. Buchsbaum rings and applications: an interaction between algebra, geometry and topology. Jürgen Stückrad, Wolfgang Vogel. Download (pdf, 13.27 Mb) Donate Read. Buchsbaum rings and applications. An interaction between algebra, geometry, and topology. Article. J. Stückrad. The face ring of a simplicial complex modulo m generic linear forms is shown to have finite local cohomology if and only if the link of every face of dimension m or more is 'nonsingular', i.e., has the homology of a wedge of spheres of the expected dimension. This is derived from an enumerative result for local cohomology of face rings modulo generic linear forms, as compared with local cohomology of the face ring itself. In mathematics, geometry and topology is an umbrella term for the historically distinct disciplines of geometry and topology, as general frameworks allow both disciplines to be manipulated uniformly, most visibly in local to global theorems in Riemannian geometry, and results like the Gauss-Bonnet theorem and Chern-Weil theory. Sharp distinctions between geometry and topology can be drawn, however, as discussed below. It is also the title of a journal Geometry & Topology that covers these topics.