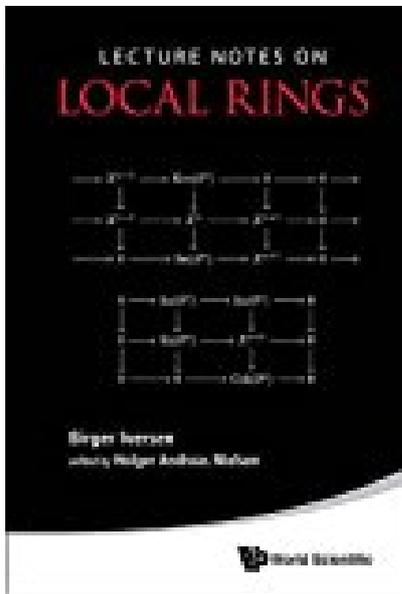# Lecture Notes on Local Rings

BOOK DETAILS

- Author : Birger Iversen
- Pages : 224 Pages
- Publisher : World Scientific Publishing Co
- Language : English
- ISBN : 9814603651

BOOK SYNOPSIS

The content in Chapter 1–3 is a fairly standard one-semester course on local rings with the goal to reach the fact that a regular local ring is a unique factorization domain. The homological machinery is also supported by Cohen–Macaulay rings and depth. In Chapters 4–6 the methods of injective modules, Matlis duality and local cohomology are discussed. Chapters 7–9 are not so standard and introduce the reader to the generalizations of modules to complexes of modules. Some of Professor Iversens results are given in Chapter 9. Chapter 10 is about Serres intersection conjecture. The graded case is fully exposed. The last chapter introduces the reader to Fitting ideals and McRae invariants. Contents:Dimension of a Local RingModules over a Local RingDivisor TheoryCompletionInjective ModulesLocal CohomologyDualizing ComplexesLocal DualityAmplitude and DimensionIntersection MultiplicitiesComplexes of Free Modules Readership: Graduate students and academic researchers with an interest in algebra, commutative algebra, algebra geometry, homological algebra and algebraic number theory. Key Features:Although the proofs are fairly short, the key points give readers the opportunity to supply details for their own satisfactionThe classical result of Auslander-Buchsbaum on unique factorization in a regular local ring is treated in a context of divisor and Picard groups, and this enlightens and connects to methods from number theoryThis book contains original research of the late Professor Iversen that are not published in this form beforeKeywords:Local Rings;Injective Modules;Matlis Duality;Local Cohomology;Birgers Results;Serres Intersection Conjecture;Fitting Ideals;McRae InvariantsReviews: "This is a very nice text on some important topics on commutative ring theory." Mathematical Association of America

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