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**Sinopsis**

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This monograph consists of two parts. Part I investigates the Cohen-Macaulay and Gorenstein properties of symbolic Rees algebras for one-dimensional prime ideals in Cohen-Macaulay local rings. Practical criteria for these algebras to be Cohen-Macaulay and Gorenstein rings are described in terms of certain elements in the prime ideals. This framework is generalized in Part II to Rees algebras  $R(F)$  and graded rings  $G(F)$  associated to general filtrations of ideals in arbitrary Noetherian local rings. Goto and Nishida give certain cohomological characterizations for algebras  $R(F)$  to be Cohen-Macaulay or Gorenstein rings in connection with the corresponding ring-theoretic properties of  $G(F)$ . In this way, readers follow a history of the development of the ring theory of Rees algebras. The book raises many important open questions.