1.	Record Nr.	UNINA9910438033603321
	Autore	Harima Tadahito
	Titolo	The Lefschetz Properties / / by Tadahito Harima, Toshiaki Maeno, Hideaki Morita, Yasuhide Numata, Akihito Wachi, Junzo Watanabe
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
	ISBN	3-642-38206-1
	Edizione	[1st ed. 2013.]
	Descrizione fisica	1 online resource (XIX, 250 p. 20 illus.)
	Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2080
	Disciplina	512/.44
	Soggetti	Algebra Algebraic geometry Combinatorics Algebraic Geometry
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references (pages 239-246) and index.
	Nota di contenuto	Introduction and Historical Note -- 1. Poset Theory -- 2. Basics on the Theory of Local Rings -- 3. Lefschetz Properties -- 4. Compete Intersections with the SLP -- 5. A Generalization of Lefschetz Elements -- 6. k-Lefschetz Properties -- 7. Cohomology Rings -- 8. Invariant Theory and Lefschetz Property -- 9. The Strong Lefschetz Property and the Schur–Weyl Duality. .
	Sommario/riassunto	This is a monograph which collects basic techniques, major results and interesting applications of Lefschetz properties of Artinian algebras. The origin of the Lefschetz properties of Artinian algebras is the Hard Lefschetz Theorem, which is a major result in algebraic geometry. However, for the last two decades, numerous applications of the Lefschetz properties to other areas of mathematics have been found, as a result of which the theory of the Lefschetz properties is now of great interest in its own right. It also has ties to other areas, including combinatorics, algebraic geometry, algebraic topology, commutative algebra and representation theory. The connections between the Lefschetz property and other areas of mathematics are not only diverse, but sometimes quite surprising, e.g. its ties to the Schur-Weyl duality. This is the first book solely devoted to the Lefschetz properties and is the first attempt to treat those properties systematically.