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Titolo	Constructive commutative algebra [e-book] : projective modules over polynomial rings and dynamical Gröbner bases / Ihsen Yengui
Pubbl/distr/stampa	Cham [Switzerland] : Springer, [2014]
ISBN	9783319194943
Descrizione fisica	1 online resource (vii, 271 pages)
Collana	Lecture Notes in Mathematics, 1617-9692 ; 2138
Classificazione	AMS 13-02 AMS 03F65 AMS 13C10 AMS 13D02 AMS 13P10 LC QA251.3.Y46
Disciplina	512.4
Soggetti	Commutative algebra Gröbner bases Polynomial rings
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (pages 259-268) and index
Nota di contenuto	Projective modules over polynomial rings ; Dynamical Gröbner bases ; Syzygies in polynomial rings over valuation domains ; Exercises ; Detailed solutions to the exercises
Sommario/riassunto	The main goal of this book is to find the constructive content hidden in abstract proofs of concrete theorems in Commutative Algebra, especially in well-known theorems concerning projective modules over polynomial rings (mainly the Quillen-Suslin theorem) and syzygies of multivariate polynomials with coefficients in a valuation ring. Simple and constructive proofs of some results in the theory of projective modules over polynomial rings are also given, and light is cast upon recent progress on the Hermite ring and Gröbner ring conjectures. New conjectures on unimodular completion arising from our constructive approach to the unimodular completion problem are presented. Constructive algebra can be understood as a first preprocessing step for computer algebra that leads to the discovery of general algorithms, even if they are sometimes not efficient. From a logical point of view,

the dynamical evaluation gives a constructive substitute for two highly nonconstructive tools of abstract algebra: the Law of Excluded Middle and Zorn's Lemma. For instance, these tools are required in order to construct the complete prime factorization of an ideal in a Dedekind ring, whereas the dynamical method reveals the computational content of this construction. These lecture notes follow this dynamical philosophy

2. Record Nr.	UNINA9910716165603321
Titolo	Murray A. Cobb. April 27, 1926. -- Committed to the Committee of the Whole House and ordered to be printed
Pubbl/distr/stampa	[Washington, D.C.] : , : [U.S. Government Printing Office], , 1926
Descrizione fisica	1 online resource (9 pages)
Collana	House report / 69th Congress, 1st session. House ; ; no. 996 [United States congressional serial set] ; ; [serial no. 8537]
Altri autori (Persone)	WinterCharles E <1870-1948> (Charles Edwin), (Republican (WY))
Soggetti	Claims Medical care Armed Forces - Officers Legislative materials.
Lingua di pubblicazione	Inglese
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