1.	Record Nr.	UNISALENTO991002951599707536
	Autore	Knebusch, Manfred
	Titolo	Manis valuations and Prüfer extensions II [e-book] / Manfred Knebusch, Tobias Kaiser
	Pubbl/distr/stampa	Cham : Springer, 2014
	ISBN	9783319032122
	Descrizione fisica	1 online resource (xii, 190 p.)
	Collana	Lecture notes in mathematics, 1617-9692 ; 2103
	Classificazione	AMS 13A18
		AMS 13B02
		AMS 13F05
		LC QA251.3
	Altri autori (Persone)	Kaiser, Tobiasauthor
	Disciplina	512.44
	Soggetti	Algebra
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Overrings and PM-Spectra ; Approximation Theorems ; Kronecker extensions and star operations ; Basics on Manis valuations and Prufer extensions ; Multiplicative ideal theory ; PM-valuations and valuations of weaker type ; Overrings and PM-Spectra ; Approximation Theorems ; Kronecker extensions and star operations ; Appendix ; References ; Index
	Sommario/riassunto	This volume is a sequel to 'Manis Valuation and Prüfer Extensions I,' LNM1791. The Prüfer extensions of a commutative ring A are roughly those commutative ring extensions R / A,where commutative algebra is governed by Manis valuations on R with integral values on A. These valuations then turn out to belong to the particularly amenable subclass of PM (=Prüfer-Manis) valuations. While in Volume I Prüfer extensions in general and individual PM valuations were studied, now the focus is on families of PM valuations. One highlight is the presentation of a very general and deep approximation theorem for PM valuations, going back to Joachim Gräter's work in 1980, a far-reaching extension of the classical weak approximation theorem in arithmetic. Another highlight is a theory of so called 'Kronecker extensions,' where PM valuations are put to use in arbitrary commutative ring extensions in a way that ultimately goes back to the work of Leopold Kronecker