| Record Nr.<br>Autore    | UNISALENTO991002951659707536<br>Knebusch, Manfred   |
|-------------------------|---|
| Titolo                  | Manis valuations and Prüfer extensions II / Manfred Knebusch, Tobias<br>Kaiser  |
| Pubbl/distr/stampa      | Cham : Springer, 2014   |
| ISBN                    | 9783319032115   |
| Descrizione fisica      | xii, 190 p. : ill. ; 24 cm  |
| Collana                 | Lecture notes in mathematics, 0075-8434 ; 2103  |
| Classificazione         | AMS 13A18<br>AMS 13B02<br>AMS 13F05<br>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<br>extensions and star operations ; Basics on Manis valuations and Prufer<br>extensions ; Multiplicative ideal theory ; PM-valuations and valuations<br>of weaker type ; Overrings and PM-Spectra ; Approximation Theorems ;<br>Kronecker extensions and star operations ; Appendix ; References ;<br>Index   |
| Sommario/riassunto      | This volume is a sequel to 'Manis Valuation and Prüfer Extensions I,'<br>LNM1791. The Prüfer extensions of a commutative ring A are roughly<br>those commutative ring extensions R / A,where commutative algebra is<br>governed by Manis valuations on R with integral values on A. These<br>valuations then turn out to belong to the particularly amenable<br>subclass of PM (=Prüfer-Manis) valuations. While in Volume I Prüfer<br>extensions in general and individual PM valuations were studied, now<br>the focus is on families of PM valuations. One highlight is the<br>presentation of a very general and deep approximation theorem for PM<br>valuations, going back to Joachim Gräter's work in 1980, a far-reaching<br>extension of the classical weak approximation theorem in arithmetic.<br>Another highlight is a theory of so called 'Kronecker extensions,' where<br>PM valuations are put to use in arbitrary commutative ring extensions<br>in a way that ultimately goes back to the work of Leopold Kronecker |

1.