1. Record Nr. UNISA996418187303316

Autore	Assi Abdallah
Titolo	Numerical semigroups and applications / / Abdallah Assi, Pedro A. Garcia-Sanchez, Marco D'Anna
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] ©2020
ISBN	3-030-54943-7
Edizione	[Second edition.]
Descrizione fisica	1 online resource (XIV, 138 p. 8 illus.)
Collana	RSME Springer Series ; ; Volume 3
Disciplina	004.0151
Soggetti	Computer science - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1 Numerical semigroups, the basics -- 2 Irreducible numerical semigroups -- 3 Ideals -- 4 Semigroup of an irreducible meromorphic series -- 5 Minimal presentations -- 6 Factorizations and divisibility.
Sommario/riassunto	This book is an extended and revised version of "Numerical Semigroups with Applications," published by Springer as part of the RSME series. Like the first edition, it presents applications of numerical semigroups in Algebraic Geometry, Number Theory and Coding Theory. It starts by discussing the basic notions related to numerical semigroups and those needed to understand semigroups associated with irreducible meromorphic series. It then derives a series of applications in curves and factorization invariants. A new chapter is included, which offers a detailed review of ideals for numerical semigroups. Based on this new chapter, descriptions of the module of Kähler differentials for an algebroid curve and for a polynomial curve are provided. Moreover, the concept of tame degree has been included, and is viewed in relation to other factorization invariants appearing in the first edition. This content highlights new applications of numerical semigroups and their ideals, following in the spirit of the first edition.