Record Nr.	UNINA9910300113903321
Autore	Niculescu Constantin P
Titolo	Convex Functions and Their Applications : A Contemporary Approach / / by Constantin P. Niculescu, Lars-Erik Persson
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-78337-8
Edizione	[2nd ed. 2018.]
Descrizione fisica	1 online resource (XVII, 415 p.)
Collana	CMS Books in Mathematics, Ouvrages de mathématiques de la SMC, , 1613-5237
Disciplina	515.7
Soggetti	Functions of real variables
	Functional analysis
	Convex geometry
	Real Functions
	Functional Analysis
	Convex and Discrete Geometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Convex Functions on Intervals Convex Sets in Real Linear Spaces Convex Functions on a Normed Linear Space Convexity and Majorization Convexity in Spaces of Matrices Duality and Convex Optimization Special Topics in Majorization Theory A. Generalized Convexity on Intervals B. Background on Convex Sets C. Elementary Symmetric Functions D. Second Order Differentiability of Convex Functions E. The Variational Approach of PDE.
Sommario/riassunto	This second edition provides a thorough introduction to contemporary convex function theory with many new results. A large variety of subjects are covered, from the one real variable case to some of the most advanced topics. The new edition includes considerably more material emphasizing the rich applicability of convex analysis to concrete examples. Chapters 4, 5, and 6 are entirely new, covering important topics such as the Hardy-Littlewood-Pólya-Schur theory of majorization, matrix convexity, and the Legendre-Fenchel-Moreau

1.

duality theory. This book can serve as a reference and source of	
inspiration to researchers in several branches of mathematics and	
engineering, and it can also be used as a reference text for graduate	
courses on convex functions and applications.	
	_