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Autore	Zhan Xingzhi
Titolo	Matrix Inequalities [[electronic resource] /] / by Xingzhi Zhan
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ISBN	3-540-45421-7
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Descrizione fisica	1 online resource (VIII, 124 p.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 1790
Classificazione	15A45 15A18
Disciplina	512.9434
Soggetti	Algebra Matrix theory Operator theory Linear and Multilinear Algebras, Matrix Theory Operator Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (pages [110]-114) and index.
Nota di contenuto	Inequalities in the Loewner Partial Order: The Loewner-Heinz inequality; Maps on matrix spaces; Inequalities for matrix powers; Block matrix techniques -- Majorization and Eigenvalues: Majorizations; Eigenvalues of Hadamard products; Singular Values: Matrix Young inequalities; Singular values of Hadamard products; Differences of positive semidefinite matrices; Matrix Cartesian decompositions; Singular values and matrix entries -- Norm Inequalities: Operator monotone functions; Cartesian decompositions revisited; Arithmetic-geometric mean inequalities; Inequalities of Holder and Minkowski types; Permutations of matrix entries; The numerical radius; Norm estimates of banded matrices -- Solution of the van der Waerden Conjecture.
Sommario/riassunto	The main purpose of this monograph is to report on recent developments in the field of matrix inequalities, with emphasis on useful techniques and ingenious ideas. Among other results this book contains the affirmative solutions of eight conjectures. Many theorems unify or sharpen previous inequalities. The author's aim is to streamline the ideas in the literature. The book can be read by research workers,

graduate students and advanced undergraduates.
