

1. Record Nr.	UNINA9910456118803321
Autore	Mitra Sujit Kumar
Titolo	Matrix partial orders, shorted operators and applications [[electronic resource] /] / Sujit Kumar Mitra, P. Bhimasankaram, Saroj B. Malik
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific, c2010
ISBN	1-282-75761-X 9786612757617 981-283-845-7
Descrizione fisica	1 online resource (464 p.)
Collana	Series in algebra ; ; v. 10
Altri autori (Persone)	BhimasankaramP MalikSaroj B
Disciplina	515.7246
Soggetti	Matrices Linear operators Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; Acknowledgements; Glossary of Symbols and Abbreviations; Contents; 1. Introduction; 2. Matrix Decompositions and Generalized Inverses; 3. The Minus Order; 4. The Sharp Order; 5. The Star Order; 6. One-Sided Orders; 7. Unified Theory of Matrix Partial Orders through Generalized Inverses; 8. The L owner Order; 9. Parallel Sums; 10. Schur Complements and Shorted Operators; 11. Shorted Operators - Other Approaches; 12. Lattice Properties of Partial Orders; 13. Partial Orders of Modified Matrices; 14. Equivalence Relations on Generalized and Outer Inverses; 15. Applications 16. Some Open Problems Appendix A Relations and Partial Orders; Bibliography; Index
Sommario/riassunto	The present monograph on matrix partial orders, appearing for the first time, is a unique presentation of many partial orders on matrices that have fascinated mathematicians for their beauty and applied scientists for their wide-ranging application potential. Except for the Lower order, the partial orders considered are relatively new and came into being in the late 1970's. After a detailed introduction to generalized inverses and decompositions, the three basic partial orders - namely,

the minus, the sharp and the star - and the corresponding one-sided orders are presented using various...
