

1. Record Nr.	UNINA9910480214303321
Autore	Olshevsky Vadim
Titolo	Structured Matrices in Mathematics, Computer Science, and Engineering [[electronic resource]]
Pubbl/distr/stampa	Providence, : American Mathematical Society, 2001
ISBN	0-8218-7871-9 0-8218-2092-3
Descrizione fisica	1 online resource (362 p.)
Collana	Contemporary Mathematics ; ; v.281
Disciplina	512.9/434
Soggetti	Matrices -- Congresses Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	<p>""Contents""; ""Foreword""; ""Part V. Fast Algorithms""; ""The Schur algorithm for matrices with Hessenberg displacement structure""; ""Fast inversion algorithms for a class of block structured matrices""; ""A fast and stable solver for recursively semi-separable systems of linear equations""; ""Part VI. Numerical Issues""; ""Stability properties of several variants of the unitary Hessenberg QR algorithm"";</p> <p>""Comparison of algorithms for Toeplitz least squares and symmetric positive definite linear systems""; ""Stability of Toeplitz matrix inversion formulas""</p> <p>""Necessary and sufficient conditions for accurate and efficient rational function evaluation and factorizations of rational matrices""""Updating and downdating of orthonormal polynomial vectors and some applications""; ""Rank-revealing decompositions of symmetric Toeplitz matrices""; ""Part VII. Iterative Methods. Preconditioners""; ""A survey of preconditioners for ill-conditioned Toeplitz systems"";</p> <p>""Preconditioning of Hermitian blocka€?Toeplitza€?Toeplitza€?block matrices by levela€?1 preconditioners""; ""Part VIII. Linear Algebra and Various Applications""</p> <p>""A generalization of the Perron-Frobenius theorem for non-linear perturbations of Stiltjes matrices""""The rhombus matrix: Definition and properties""</p>

