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Autore	Saff E. B. <1944->
Titolo	Fundamentals of matrix analysis with applications / / Edward Barry Saff, Arthur David Snider
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ISBN	1-118-99632-1 1-118-95368-1
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Livello bibliografico	Monografia
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Nota di contenuto	Title Page; Copyright Page; Contents; Preface; PART I INTRODUCTION: THREE EXAMPLES; Chapter 1 Systems of Linear Algebraic Equations; 1.1 Linear Algebraic Equations; 1.2 Matrix Representation of Linear Systems and the Gauss-Jordan Algorithm ; 1.3 The Complete Gauss Elimination Algorithm; 1.4 Echelon Form and Rank; 1.5 Computational Considerations; 1.6 Summary; Chapter 2 Matrix Algebra; 2.1 Matrix Multiplication; 2.2 Some Physical Applications of Matrix Operators; 2.3 The Inverse and the Transpose; 2.4 Determinants; 2.5 Three Important Determinant Rules; 2.6 Summary; Group Projects for Part I A. LU Factorization B. Two-Point Boundary Value Problem; C. Electrostatic Voltage; D. Kirchhoff's Laws; E. Global Positioning Systems; F. Fixed-Point Methods; PART II INTRODUCTION: THE STRUCTURE OF GENERAL SOLUTIONS TO LINEAR ALGEBRAIC EQUATIONS; Chapter 3 Vector Spaces; 3.1 General Spaces, Subspaces, and Spans; 3.2 Linear Dependence; 3.3 Bases, Dimension, and Rank; 3.4 Summary; Chapter 4 Orthogonality; 4.1 Orthogonal Vectors and the Gram-Schmidt Algorithm; 4.2 Orthogonal Matrices; 4.3 Least Squares; 4.4 Function

Sommario/riassunto

This book provides comprehensive coverage of matrix theory from a geometric and physical perspective, and the authors address the functionality of matrices and their ability to illustrate and aid in many practical applications. Readers are introduced to inverses and eigenvalues through physical examples such as rotations, reflections, and projections, and only then are computational details described and explored. MATLAB is utilized to aid in reader comprehension, and the authors are careful to address the issue of rank fragility so readers are not flummoxed when MATLAB displays conflict with

2.	Record Nr.	UNISALENTO991001245519707536
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	Lingua di pubblicazione	Italiano
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