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Autore	Loehlin, John C.
Titolo	Latent variable models : an introduction to factor, path, and structural analysis / John C. Loehlin
Pubbl/distr/stampa	Mahwah, : Erlbaum, 1992
ISBN	08-05-81084-6
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Descrizione fisica	XI, 292 p. : ill. ; 23 cm
Disciplina	519.535
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Latent Variable Models: An Introduction to Factor, Path, and Structural Equation Analysis introduces latent variable models by utilizing path diagrams to explain the relationships in the models. This approach helps less mathematically-inclined readers to grasp the underlying relations among path analysis, factor analysis, and structural equation modeling, and to set up and carry out such analyses. This revised and expanded fifth edition again contains key chapters on path analysis, structural equation models, and exploratory factor analysis. In addition, it contains new material on composite reliability, models with categorical data, the minimum average partial procedure, bi-factor models, and communicating about latent variable models.

2. Record Nr.	UNINA9911006800003321
Autore	Shilov G. E (Georgii Evgenevich)
Titolo	Linear Algebra
Pubbl/distr/stampa	Newburyport, : Dover Publications, 2012
ISBN	0-486-13504-7 1-62198-583-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (670 p.)
Collana	Dover Books on Mathematics
Disciplina	512/.5
Soggetti	Algebras, Linear Mathematics Physical Sciences & Mathematics Algebra
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	DOVER BOOKS ON MATHEMATICS; Title Page; Copyright Page; PREFACE; Table of Contents; chapter I - DETERMINANTS; I.1. Number Fields; I.2. Problems of the Theory of Systems of Linear Equations; I.3. Determinants of Order n; 1.4. Properties of Determinants; 1.5. Cofactors and Minors; 1.6. Practical Evaluation of Determinants; 1.7. Cramer's Rule; 1.8. Minors of Arbitrary Order. Laplace's Theorem; 1.9. Linear Dependence between Columns; chapter 2 - LINEAR SPACES; 2.1. Definitions; 2.2. Linear Dependence; 2.3 Bases, Components, Dimension; 2.4. Subspaces; 2.5. Linear Manifolds; 2.6. Hyperplanes 2.7. Morphisms of Linear Spaceschapter 3 - SYSTEMS OF LINEAR EQUATIONS; 3.1. More on the Rank of a Matrix; 3.2. Nontrivial Compatibility of a Homogeneous Linear System; 3.3. The Compatibility Condition for a General Linear System; 3.4. The General Solution of a Linear System; 3.5. Geometric Properties of the Solution Space; 3.6. Methods for Calculating the Rank of a Matrix; chapter 4 - LINEAR FUNCTIONS OF A VECTOR ARGUMENT; 4.1. Linear Forms; 4.2. Linear Operators; 4.3. Sums and Products of Operators; 4.4. Corresponding Operations on Matrices; 4.5. Further Properties of Matrix Multiplication 4.6.The Range and Null Space of a Linear Operator4.7. Linear Operators Mapping a Space K^n into Itself 2&; 4.8.Invariant Subspaces; 4.9.

Eigenvectors and Eigenvalues; chapter 5 - COORDINATE TRANSFORMATIONS; 5.1. Transformation to a New Basis; 5.2. Consecutive Transformations; 5.3. Transformation of the Components of a Vector; 5.4. Transformation of the Coefficients of a Linear Form; 5.5. Transformation of the Matrix of a Linear Operator; *5.6. Tensors; chapter 6 - THE CANONICAL FORM OF THE MATRIX OF A LINEAR OPERATOR; 6.1 Canonical Form of the Matrix of a Nilpotent Operator . 6.2. Algebras. The Algebra of Polynomials6.3. Canonical Form of the Matrix of an Arbitrary Operator; 6.4. Elementary Divisors; 6.5. Further Implications; 6.6. The Real Jordan Canonical Form; *6.7. Spectra, Jets and Polynomials; *6.8. Operator Functions and Their Matrices; chapter 7 - BILINEAR AND QUADRATIC FORMS; 7.1. Bilinear Forms; 7.2. Quadratic Forms; 7.3. Reduction of a Quadratic Form to Canonical Form; 7.4. The Canonical Basis of a Bilinear Form; 7.5. Construction of a Canonical Basis by Jacobi's Method; 7.6. Adjoint Linear Operators 7.7. Isomorphism of Spaces Equipped with a Bilinear Form*7.8. Multilinear Forms; 7.9. Bilinear and Quadratic Forms in a Real Space; chapter 8 - EUCLIDEAN SPACES; 8.1. Introduction; 8.2. Definition of a Euclidean Space; 8.3. Basic Metric Concepts; 8.4. Orthogonal Bases; 8.5. Perpendiculars; 8.6. The Orthogonalization Theorem; 8.7. The Gram Determinant; 8.8. Incompatible Systems and the Method of Least Squares; 8.9. Adjoint Operators and Isometry; chapter 9 - UNITARY SPACES; 9.1. Hermitian Forms; 9.2. The Scalar Product in a Complex Space; 9.3. Normal Operators 9.4. Applications to Operator Theory in Euclidean Space

Sommario/riassunto

<DIV> <DIV>Covers determinants, linear spaces, systems of linear equations, linear functions of a vector argument, coordinate transformations, the canonical form of the matrix of a linear operator, bilinear and quadratic forms, Euclidean spaces, unitary spaces, quadratic forms in Euclidean and unitary spaces, finite-dimensional space. Problems with hints and answers.</DIV></DIV>
