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Autore	Courant Richard <1888-1972, >
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	METHODS OF MATHEMATICAL PHYSICS; CONTENTS; I . The Algebra of Linear Transformations and Quadratic Forms; 1 . Linear equations and linear transformations; 1 . Vectors; 2 . Orthogonal systems of vectors . Completeness; 3 . Linear transformations . Matrices; 4 . Bilinear, Quadratic, and Hermitian forms; 5 . Orthogonal and unitary transformations; 2 . Linear transformations with a linear parameter; 3 . Transformation to principal axes of quadratic and Hermitian forms; 1 . Transformation to principal axes on the basis of a maximum principle; 2 . Eigenvalues 3 . Generalization to Hermitian forms4 . Inertial theorem for quadratic forms; 5 . Representation of the resolvent of a form; 6 . Solution of systems of linear equations associated with forms; 4 . Minimum-maximum property of eigenvalues; 1 . Characterization of eigenvalues by a minimum-maximum problem; 2 . Applications . Constraints; 5 . Supplement and problems; 1 . Linear independence and the Gram determinant; 2 . Hadamard's inequality for determinants; 3 . Generalized treatment of canonical transformations; 4 . Bilinear and quadratic forms of infinitely many variables 5 . Infinitesimal linear transformations6 . Perturbations; 7 . Constraints;

8 . Elementary divisors of a matrix or a bilinear form; 9 . Spectrum of a unitary matrix; References; II . Series Expansions of Arbitrary Functions; 1 . Orthogonal systems of functions; 1 . Definitions; 2 . Orthogonalization of functions; 3 . Bessel's inequality . Completeness relation . Approximation in the mean; 4 . Orthogonal and unitary transformations with infinitely many variables; 5 . Validity of the results for several independent variables . More general assumptions 6 . Construction of complete systems of functions of several variables 2 . The accumulation principle for functions; 1 . Convergence in function space; 3 . Measure of independence and dimension number; 1 . Measure of independence; 2 . Asymptotic dimension of a sequence of functions; 4 . Weierstrass's approximation theorem . Completeness of powers and of trigonometric functions; 1 . Weierstrass's approximation theorem; 2 . Extension to functions of several variables; 3 . Simultaneous approximation of derivatives; 4 . Completeness of the trigonometric functions; 5 Fourier series 1 . Proof of the fundamental theorem 2 . Multiple Fourier series; 3 . Order of magnitude of Fourier Coefficients; 4 . Change in length of Basic Interval; 5 . Examples; 6 . The Fourier integral; 1 . The fundamental theorem; 2 . Extension of the result to several variables; 3 . Reciprocity formulas; 7 . Examples of Fourier integrals; 8 . Legendre polynomials; 1 . Construction of the Legendre polynomials by orthogonalization of the powers $1, x, x^2$; 2 . The generating function; 3 . Other properties of the Legendre polynomials; (a) Recursion formula; (b) Differential equation (c) Minimum property

Sommario/riassunto

Since the first volume of this work came out in Germany in 1924, this book, together with its second volume, has remained standard in the field. Courant and Hilbert's treatment restores the historically deep connections between physical intuition and mathematical development, providing the reader with a unified approach to mathematical physics. The present volume represents Richard Courant's second and final revision of 1953.

2. Record Nr.	UNISALENTO991001786199707536
Titolo	L'avventura del sipario : figurazione e metafora di una macchina teatrale / a cura di Valerio Morpurgo
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