

1. Record Nr.	UNISALENTO991004073259707536
Autore	Deuflhard, Peter
Titolo	Scientific computing with ordinary differential equations / Peter Deuflhard, Folkmar Bornemann ; translated by Werner C. Rheinboldt
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Titolo uniforme	Numerik von Anfangswertmethoden für gewöhnliche Differentialgleichungen. English 1454942
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Altri autori (Persone)	Bornemann, Folkmarauthor
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Titolo	Current microbiology
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Descrizione fisica	1 online resource
Disciplina	576.05
Soggetti	Microbiology Microbiologie Mikrobiologie Zeitschrift Online-Ressource Periodicals. Zeitschrift Online-Publikation
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Autore	Diagana Toka
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Soggetti	Operator theory Functional analysis Algebra Field theory (Physics) Functions of real variables Operator Theory Functional Analysis Field Theory and Polynomials Real Functions
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Nota di contenuto	Preface; Acknowledgments; Contents; 1 Non-Archimedean Valued Fields; 1.1 Valuation; 1.1.1 Definitions and First Properties; 1.1.2 The Topology Induced by a Valuation on K; 1.1.3 Non-Archimedean Valuations; 1.1.4 Some Analysis on a Complete Non-Archimedean Valued Field; 1.1.5 The Order Function for a Discrete Valuation; 1.2 Examples; 1.2.1 Examples of Archimedean Valuation; 1.2.2 Examples of Non-Archimedean Valued Fields; 1.3 Additional Properties of Non-Archimedean Valued Fields; 1.4 Some Remarks on Krull Valuations; 1.5 Bibliographical Notes; 2 Non-Archimedean Banach Spaces 2.1 Non-Archimedean Norms 2.2 Non-Archimedean Banach Spaces; 2.3 Free Banach Spaces; 2.4 The p-adic Hilbert Space E; 2.5 Bibliographical Notes; 3 Bounded Linear Operators in Non-Archimedean Banach Spaces; 3.1 Bounded Linear Operators; 3.1.1 Definitions and Examples; 3.1.2 Basic Properties; 3.1.3 Bounded Linear Operators in

Free Banach Spaces; 3.2 Additional Properties of Bounded Linear Operators; 3.2.1 The Inverse Operator; 3.2.2 Perturbations of Orthogonal Bases Using the Inverse Operator; 3.2.3 The Adjoint Operator; 3.3 Finite Rank Linear Operators; 3.3.1 Basic Definitions 3.3.2 Properties of Finite Rank Operators 3.4 Completely Continuous Linear Operators; 3.4.1 Basic Properties; 3.4.2 Completely Continuous Linear Operators on E ; 3.5 Bounded Fredholm Linear Operators; 3.5.1 Definitions and Examples; 3.5.2 Properties of Fredholm Operators; 3.6 Spectral Theory for Bounded Linear Operators; 3.6.1 The Spectrum of a Bounded Linear Operator; 3.6.2 The Essential Spectrum of a Bounded Linear Operator; 3.7 Bibliographical Notes; 4 The Vishik Spectral Theorem; 4.1 The Shnirel'man Integral and Its Properties; 4.1.1 Basic Definitions; 4.1.2 The Shnirel'man Integral 4.2 Distributions with Compact Support 4.3 Cauchy-Stieltjes and Vishik Transforms; 4.4 Analytic Bounded Linear Operators; 4.5 Vishik Spectral Theorem; 4.6 Bibliographical Notes; 5 Spectral Theory for Perturbations of Bounded Diagonal Linear Operators; 5.1 Spectral Theory for Finite Rank Perturbations of Diagonal Operators; 5.1.1 Introduction; 5.1.2 Spectral Analysis for the Class of Operators $T = D + K$; 5.1.3 Spectral Analysis for the Class of Operators $T = D + F$; 5.2 Computation of $e(D)$; 5.3 Spectrum of $T = D + F$; 5.4 Examples; 5.5 Bibliographical Notes; 6 Unbounded Linear Operators 6.1 Unbounded Linear Operators on a Non-archimedean Banach Space 6.2 Closed Linear Operators; 6.3 The Spectrum of an Unbounded Operator; 6.4 Unbounded Fredholm Operators; 6.5 Bibliographical Notes; 7 Spectral Theory for Perturbations of Unbounded Linear Operators; 7.1 Introduction; 7.2 Spectral Analysis for the Class of Operators $T = D + K$; 7.3 Spectral Analysis for the Class of Operators $T = D + F$; 7.4 Computation of $e(D)$; 7.5 Main Result; 7.6 Bibliographical Notes; A The Shnirel'man Integral; A.1 Distributions with Compact Support; A.2 Cauchy-Stieltjes and Vishik Transforms; References Index

Sommario/riassunto

This book focuses on the theory of linear operators on non-Archimedean Banach spaces. The topics treated in this book range from a basic introduction to non-Archimedean valued fields, free non-Archimedean Banach spaces, bounded and unbounded linear operators in the non-Archimedean setting, to the spectral theory for some classes of linear operators. The theory of Fredholm operators is emphasized and used as an important tool in the study of the spectral theory of non-Archimedean operators. Explicit descriptions of the spectra of some operators are worked out. Moreover, detailed background materials on non-Archimedean valued fields and free non-Archimedean Banach spaces are included for completeness and for reference. The readership of the book is aimed toward graduate and postgraduate students, mathematicians, and non-mathematicians such as physicists and engineers who are interested in non-Archimedean functional analysis. Further, it can be used as an introduction to the study of non-Archimedean operator theory in general and to the study of spectral theory in other special cases. .
