

## Functional Analysis Lecture



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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 228 Publisher: Beijing Normal University Press Pub. Date :2007-12-1. The second edition is adapted from the first edition of the chapters chapters. The first chapter introduces the basic concepts of space. distance. and describes the contraction mapping principle and its application of the theory for differential equations. The second chapter describes the linear normed space and the basic concepts of linear normed linear operator on the space. including the basic concepts of linear functionals. The third chapter describes the concept of inner product space. focusing on the infinite-dimensional space. describes the inner product space is not separable orthonormal basis of the concept. The fourth chapter describes the linear operators and linear functionals of the basic theory. including baire Gang reasoning method. open mapping theorem. the inverse operator theorem. closed image theorem. uniform boundedness principle (resonance theorem). and hahn-banach of Paul Van continuous linear functional extension theorem. Chapter V describes conjugate spaces and adjoint operator. detailing the uniformly continuous function space conjugate space.  $p$  sub-integrable function space conjugate space. About the weak convergence and weak star convergence concept. Also describes the general normed linear space of linear operators with operator and hilbert space adjoint operator and self-adjoint operators. Chapter VI describes compact operators. completely continuous operator concept. Presented on the infinite-dimensional space completely continuous operator schauder fixed point theorem and its application in the theory of differential equations. About hilbert space linear completely continuous operator nature of the whole continuous self-adjoint operators of the spectral structure. Examined as an example of a hermite type nuclear integral operator. Each equipped with exercise after the holiday. Book with the term index. Book for universities and higher colleges or teaching mathematics...



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