Functional Analysis in Asymmetric Normed Spaces

By Stefan Cobzas

Springer-Verlag Gmbh Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 244x155x17 mm. Neuware - An asymmetric norm is a positive definite sublinear functional p on a real vector space X . The topology generated by the asymmetric norm p is translation invariant so that the addition is continuous, but the asymmetry of the norm implies that the multiplication by scalars is continuous only when restricted to non-negative entries in the first argument. The asymmetric dual of X , meaning the set of all real-valued upper semi-continuous linear functionals on X , is merely a convex cone in the vector space of all linear functionals on X . In spite of these differences, many results from classical functional analysis have their counterparts in the asymmetric case, by taking care of the interplay between the asymmetric norm p and its conjugate. Among the positive results one can mention: Hahn Banach type theorems and separation results for convex sets, Krein Milman type theorems, analogs of the fundamental principles open mapping, closed graph and uniform boundedness theorems an analog of the Schauder s theorem on the compactness of the conjugate mapping. Applications are given to best approximation problems and, as relevant examples, one considers normed...

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