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Locally convex spaces. (English) Zbl 0466.46001

Mathematische Leitfäden. Stuttgart: B. G. Teubner. 548 p. DM 98.00 (1981).

For a scan of this review see the [web version](#).

MSC:

- 46-02 Research exposition (monographs, survey articles) pertaining to functional analysis
- 46A03 General theory of locally convex spaces
- 46A13 Spaces defined by inductive or projective limits (LB, LF, etc.)
- 46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
- 46-01 Introductory exposition (textbooks, tutorial papers, etc.) pertaining to functional analysis
- 46M40 Inductive and projective limits in functional analysis
- 46A20 Duality theory for topological vector spaces
- 46A08 Barrelled spaces, bornological spaces
- 46A04 Locally convex Fréchet spaces and (DF)-spaces
- 46M05 Tensor products in functional analysis
- 46A30 Open mapping and closed graph theorems; completeness (including B -, B_r -completeness)
- 46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators
- 47B10 Linear operators belonging to operator ideals (nuclear, p -summing, in the Schatten-von Neumann classes, etc.)
- 47L30 Abstract operator algebras on Hilbert spaces

Cited in **8** Reviews
Cited in **533** Documents

Keywords:

projective and inductive limits; F -semi-norms; strictly webbed tvs; closed graph theorem; Hahn-Banach theorem; Klein-Milman theorem; duality; Stone-Weierstraß theorem; Schwartz spaces; diametral dimension; barrelledness; reflexivity; gDF-spaces; Prokhorov's theorem; bornological and ultrabornological spaces; Nachbin-Shirota's theorem; bases; Orlicz- Pettis theorem; tensor products; nuclearity; factorization theorem for weakly compact operators; approximation property; operator ideals; absolutely p -summing operators; strongly nuclear operators; Hilbert- Schmidt operators; Grothendieck inequality; Dunford-Pettis property; Choquet simplex