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[Zbl 0852.46001](#)

[Kutateladze, S.S.](#)

Fundamentals of functional analysis. Transl. from the Russian. (English)

[B] Kluwer Texts in the Mathematical Sciences. 12. Dordrecht: Kluwer Academic Publishers. xiv, 276 p. Dfl 245.00; \$ 170.00; \sterling 110.00 (1995). ISBN 0-7923-3898-7

The original Russian edition of the book appeared in 1983. It was intended to serve as a textbook and or reference book to be used in the courses in functional analysis at the Novosibirsk State University. About 12 years later a second and enlarged edition appeared. The latter referring to the addition in Chapter 10 of a treatment of the basic principles of the theory of distributions. Furthermore, the author added a large number of interesting new exercises and the list of references was updated to reflect the more recent developments in the areas of functional analysis that are treated in the book. The present edition is an English translation by the author of the second and enlarged Russian edition.\par The first Russian edition received a very favorable review in [Zbl 0581.46001](#). The present reviewer of the English edition fully agrees with the previous reviewer that the book is a very welcome edition to the existing collection of textbooks and reference texts in functional analysis in that it reflects in many ways the interest and work that has been going on in Novosibirsk. The added material on the theory of distributions is well focused and directed toward applications to the area of Fourier analysis of distributions. The exercises are well chosen and enhance the text and are challenging enough for the readers to test their skills. Another attractive feature of the book is that it does not neglect to bring the reader up-to-date with some of the newest results in areas treated in the text.\par There is not doubt in my mind that the English edition will

prove to be as useful in the teaching of functional analysis as the Russian editions.

[\[W.A.J.Luxemburg \(Pasadena\)\]](#)

MSC 2000:

[*46-01](#) Textbooks (functional analysis)

[46F12](#) Integral transforms in distribution spaces

Keywords: distributions; Fourier analysis

Citations: [Zbl 0581.46001](#)

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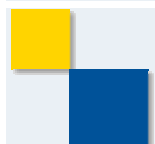
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