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Pinkus, Allan M.

On L^1 -approximation.

Cambridge Tracts in Mathematics, 93. Cambridge: Cambridge University Press. x, 239 p. £25.00; \$ 44.50 (1989).

This important work is concerned essentially with the qualitative theory of best L^1 -approximation from finite-dimensional subspaces. The monograph which presents a survey of recent research in this exciting field is very useful for self study or as a text for advanced level courses. Beginning with introduction to concepts in approximation theory the treatment extends to algorithms, as also computation. Each chapter ends with exercises, notes and references much of which should make the treatise quite valuable. Appendix (2) and index (2) are arranged such that the whole effort serves the purpose it addresses, rather well.

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Keywords: best L^1 -approximation; algorithms; exercises