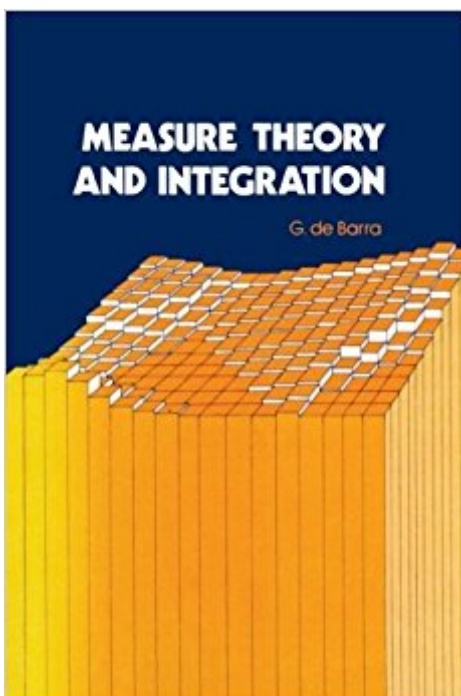


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Measure Theory And Integration, Second Edition



Synopsis

This text approaches integration via measure theory as opposed to measure theory via integration, an approach which makes it easier to grasp the subject. Apart from its central importance to pure mathematics, the material is also relevant to applied mathematics and probability, with proof of the mathematics set out clearly and in considerable detail. Numerous worked examples necessary for teaching and learning at undergraduate level constitute a strong feature of the book, and after studying statements of results of the theorems, students should be able to attempt the 300 problem exercises which test comprehension and for which detailed solutions are provided. Approaches integration via measure theory, as opposed to measure theory via integration, making it easier to understand the subject. Includes numerous worked examples necessary for teaching and learning at undergraduate level. Detailed solutions are provided for the 300 problem exercises which test comprehension of the theorems provided.

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Customer Reviews

“Of use to the serious student of measure theory and analysis and useful as a reference.

“For the general practitioner., The Mathematical Gazette

Gar De Barra, University of London, UK

The book isn't organized as a teaching text: it is a definition, theorem and proof type structure that

is pretty hard reading. I would have given it two stars except for the convergence diagrams which are digraphs showing the connections between types of convergence. I don't know if the author invented it, but it seems to be a new way to visualize sequence convergence processes that I hadn't seen before. He gets low marks for leaving out Hardy, Hilbert and Banach in his discussion of measure spaces. The place of measure in topology is also not well discussed. Lebesgue measure ideas and integration theories are well discussed.

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There's a stupid mistake in the first set of examples on page 16: 1 (vi) should be subset not equality. He also uses seriously non-standard notation for sets and spaces and so on. Don't let it slow you down.

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