Measure, Integral and Probability (Springer Undergraduate Mathematics Series)

Marek Capinski, Peter E. Kopp
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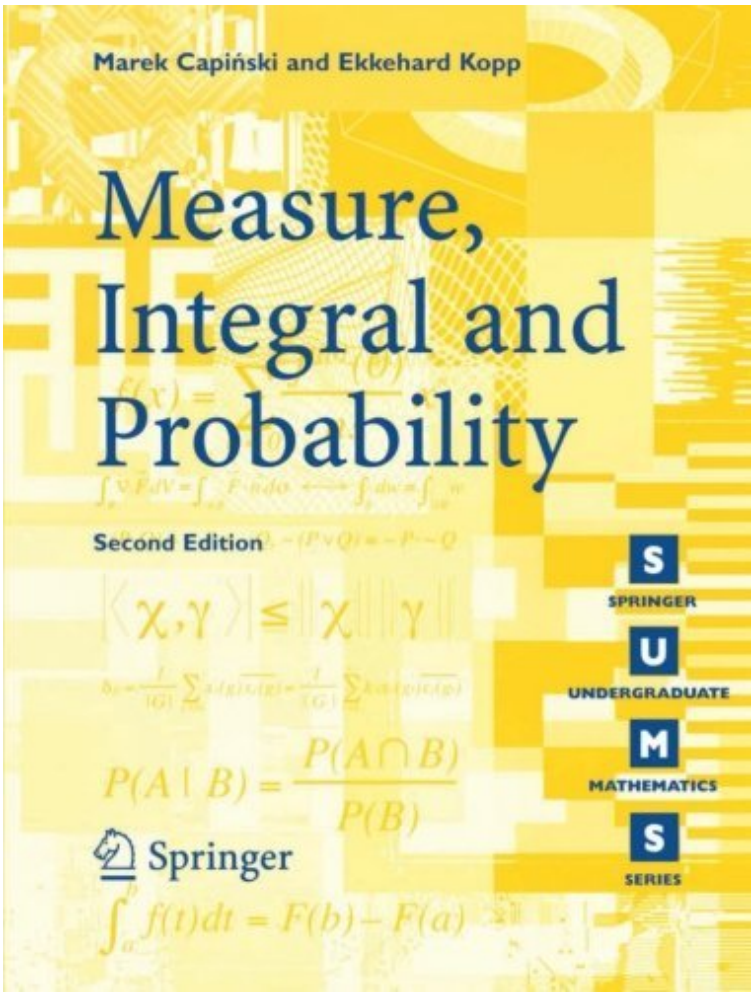

#604308 in eBooks 2013-12-01 2013-12-01File Name: B00HWVTJ7A | File size: 48.Mb

Marek Capinski, Peter E. Kopp : Measure, Integral and Probability (Springer Undergraduate Mathematics Series) before purchasing it in order to gage whether or not it would be worth my time, and all praised Measure, Integral and Probability (Springer Undergraduate Mathematics Series):

2 of 7 people found the following review helpful. Do not use it aloneBy RakeshThe books provides a good introduction. However this should not be your primary book for the subject matter. It is an awesome book to get your feet wet a little. After the first 3 chapters, I suggest looking at books that are more specialized. If you have access to a University library, then there are many books on this that does much better job on introduction. For others, this could be the next best alternative.38 of 38 people found the following review helpful. Best Introduction for the Financial MathematicianBy Gaurav SaroliyaThis book is, as it were, manna from heaven for the aspiring financial mathematician, especially someone without a first degree in mathematics or a mathematically-based subject. The only

prerequisites are a very good understanding of set-theory and some knowledge of the theory of continuous functions (at the level of a first course in real analysis, e.g. Apostol's Mathematical Analysis). The development is patient and there is sufficient help for the beginner (full solutions at the back, and, for practice, unproved propositions in the text with proofs at chapter-ends). The coverage is not overwhelming and anyone with the requisite preparation can digest the book in a term's work. Measure theory on its own is an incredibly dry subject. The authors do a great job of covering the essentials in about 300 pages, while making the subject interesting and applicable at the same time. A very attractive feature of the book is its brief focus on mathematical-finance applications. Most chapters end with a small section on such applications which is very useful for someone simultaneously studying mathematical finance. Particularly, it shows how to conceptualize financial models measure-theoretically. A very useful little volume indeed!30 of 31 people found the following review helpful. Highly accessibleBy esseyoHighly accessible and clear intro to measure and Lebesgue integration. Can relax with this book while waiting for the train after work. Only minor negatives are: (1) not enough exercises and (2) there are typos but Springer Verlag doesn't provide any errata list whatsoever.(Update 2008) There are now other similar books on the market and the paucity of exercises in this book is just not acceptable. For an inexpensive alternative, I recommend Klambauer's "Real Analysis" published by Dover. He uses Caratheacute;odory's definition of a measurable set which (to me) is a faster path to results. Also his exercises are insightful.

Measure, Integral and Probability is a gentle introduction that makes measure and integration theory accessible to the average third-year undergraduate student. The ideas are developed at an easy pace in a form that is suitable for self-study, with an emphasis on clear explanations and concrete examples rather than abstract theory. For this second edition, the text has been thoroughly revised and expanded. New features include: middot;a substantial new chapter, featuring a constructive proof of the Radon-Nikodym theorem, an analysis of the structure of Lebesgue-Stieltjes measures, the Hahn-Jordan decomposition, and a brief introduction to martingales middot;key aspects of financial modelling, including the Black-Scholes formula, discussed briefly from a measure-theoretical perspective to help the reader understand the underlying mathematical framework. In addition, further exercises and examples are provided to encourage the reader to become directly involved with the material.

From the reviews: The level of explanation is excellent and great care has gone into providing motivation for the study of all aspects of the materialhellip;Overall, this is an excellent and interesting text. Times Higher Education SupplementA clear, understandable treatment of a very problematic areahellip;The authors are to be commended for their lucid writing style.Journal of the American Statistical Association From the reviews of the second edition: "This book is a gentle introduction that makes measure and integration theory accessible to the average third-year undergraduate student. The ideas are developed at an easy pace in a form that is suitable for self-study, with an emphasis on clear explanations and concrete examples rather than abstract theory. hellip; Key aspects of financial modelling, including the Black-Scholes formula hellip; help the reader understand the underlying mathematical framework." (L'Enseignement Mathematique, Vol. 50 (3-4), 2004) "The central concepts of this excellent undergraduate text are those of Lebesgue measure and the Lebesgue integral, especially with a view to their applications in probability and, more briefly, finance. hellip; Throughout, the material is presented clearly and rigorously, with an emphasis on accessibility and explicitness. hellip; the book engages the reader actively, and the applications in both probability and finance are clearly developed from a measure-theoretic perspective." (Jennie Golding, The Mathematical Gazette, Vol. 90 (518), 2006) "There exist many books on each of the areas of real analysis and probability, including some which attempt to treat both subjects in the same treatise. hellip; A fundamental strong point of the book under review is that the reader is led through a careful course hellip; . For the second edition, the text has been thoroughly revised and expanded. hellip; The selection and presentation of the material makes this a useful book for an introduction to measure, integration theory and probability." (B. Kirstein, Zeitschrift fuuml;r Analysis und ihre Anwendungen, Vol. 24 (4), 2005) "This text succeeds in its aim of providing an introduction to measure and integration that is hellip; accessible to undergraduates. Written in a clear engaging style, the text is seasoned with an abundance of concrete examples. hellip; Each chapter concludes with a substantial section on probability and a brief section on finance. hellip; a broad introduction to probability has been presented, extending to martingales, the strong law of large numbers, and the Lindeberg-Feller version of the central limit theorem." (J. W. Hagood, Zentralblatt MATH, Vol. 1103 (5), 2007)About the AuthorCapinski, Nowy Sacz Graduate School of Business.Ekkehard Kopp is Emeritus Professor of Mathematics at the University of Hull, where he taught courses at all levels in analysis, measure and probability, stochastic processes and mathematical finance between 1970 and 2007. His editorial experience includes service as founding member of the Springer Finance series (1998 2008) and the Cambridge University Press AIMS Library Series. He has taught in the UK, Canada and South Africa and he has authored more than 50 research publications and five books.