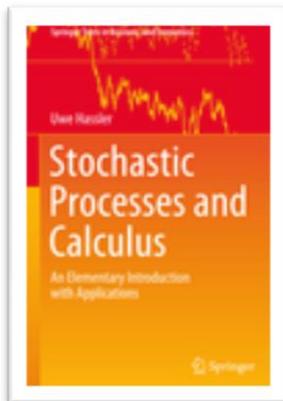


BOOK REVIEW

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STOCHASTIC PROCESSES AND CALCULUS
(An Elementary Introduction with Applications)

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INTRODUCTION

The book to be here reviewed is **Stochastic Processes and Calculus (An Elementary Introduction with Applications)**, 978-3-319-23427-4 by **Uwe Hassler** from Springer Series *Springer Texts in Business and Economics*, 2192-4333.

The author belongs to the Faculty of Economics and Business Administration, Goethe University Frankfurt, Frankfurt, Germany.

The Edition is from Springer International Publishing Switzerland 2016.

THE REVIEW

The construction of this book is based on the author experience of 15 years of teaching stochastic processes and calculus. It was his concern to draw up a text, simultaneously elementary and rigorous, giving a comprehensive introduction to stochastic processes and calculus in the fields of finance and economics, with a special focus on mathematical finance and time series econometrics. This book is aimed primarily at readers in the fields of mathematics, finance and econometrics. It is also interesting for readers in biology, engineering or physics.

Very well written, this work exuberantly patents the domination of pedagogical techniques by author. In fact, it is built in such a way that through proper selection of chapters allows various types of readings: financial, mathematical, econometric and even the "non-technical".

Although designed as an introductory book, aimed at accessibility by a large mass of readers with varied backgrounds, the rigour of the exposition is not neglected. So the relevant topics are given not using many technical derivations. As for the procedures that are presented at a technical advanced level, the technical arguments are outlined in exercise problems with solutions. So, if necessary, the reader can acquire the essential knowledge, avoiding the embarrassment that the technical details can bring. If the option is to grasp the knowledge in more depth and detail, it is also available.

This book is therefore a very successful work on the task of providing the largest number of readers an introduction to stochastic processes and calculus simultaneously accessible and rigorous, with a wide exemplification of applications in various fields. Very important for readers in the fields of mathematics, finance and econometrics and also in biology, engineering or physics, but not only.