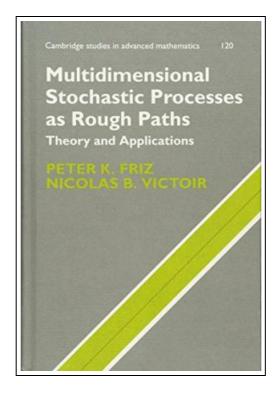
# Multidimensional Stochastic Processes as Rough Paths: Theory and Applications (Hardback)



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#### Reviews

This is basically the finest publication i actually have go through till now. We have read and i also am confident that i am going to likely to read through again once more in the foreseeable future. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Prof. Adell Lubowitz)

## MULTIDIMENSIONAL STOCHASTIC PROCESSES AS ROUGH PATHS: THEORY AND APPLICATIONS (HARDBACK)



CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2010. Hardback. Condition: New. Language: English. Brand New Book. Rough path analysis provides a fresh perspective on Ito's important theory of stochastic differential equations. Key theorems of modern stochastic analysis (existence and limit theorems for stochastic flows, Freidlin-Wentzell theory, the Stroock-Varadhan support description) can be obtained with dramatic simplifications. Classical approximation results and their limitations (Wong-Zakai, McShane's counterexample) receive obvious rough path explanations. Evidence is building that rough paths will play an important role in the future analysis of stochastic partial differential equations and the authors include some first results in this direction. They also emphasize interactions with other parts of mathematics, including Caratheodory geometry, Dirichlet forms and Malliavin calculus. Based on successful courses at the graduate level, this up-to-date introduction presents the theory of rough paths and its applications to stochastic analysis. Examples, explanations and exercises make the book accessible to graduate students and researchers from a variety of fields.



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