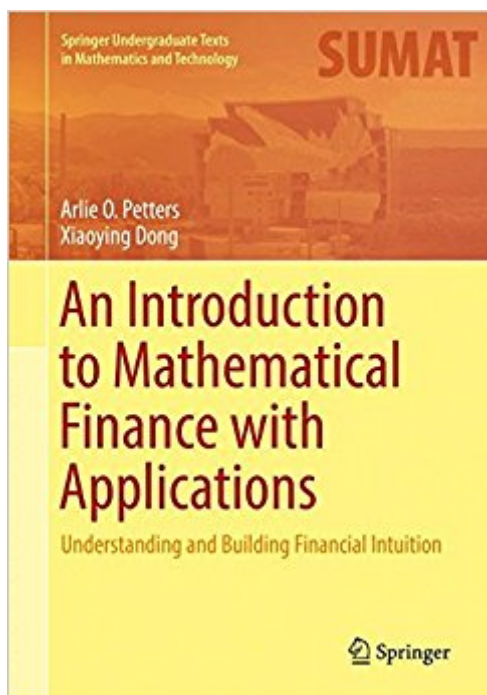The book was found

An Introduction To Mathematical Finance With Applications: Understanding And Building Financial Intuition (Springer Undergraduate Texts In Mathematics And Technology)

Synopsis

This textbook aims to fill the gap between those that offer a theoretical treatment without many applications and those that present and apply formulas without appropriately deriving them. The balance achieved will give readers a fundamental understanding of key financial ideas and tools that form the basis for building realistic models, including those that may become proprietary. Numerous carefully chosen examples and exercises reinforce the student's conceptual understanding and facility with applications.   The exercises are divided into conceptual, application-based, and theoretical problems, which probe the material deeper.The book is aimed toward advanced undergraduates and first-year graduate students who are new to finance or want a more rigorous treatment of the mathematical models used within. While no background in finance is assumed, prerequisite math courses include multivariable calculus, probability, and linear algebra. The authors introduce additional mathematical tools as needed. The entire textbook is appropriate for a single year-long course on introductory mathematical finance. The self-contained design of the text allows for instructor flexibility in topics courses and those focusing on financial derivatives. Moreover, the text is useful for mathematicians, physicists, and engineers who want to learn finance via an approach that builds their financial intuition and is explicit about model building, as well as business school students who want a treatment of finance that is deeper but not overly theoretical.

Book Information

Series: Springer Undergraduate Texts in Mathematics and Technology

Hardcover: 483 pages

Publisher: Springer; 1st ed. 2016 edition (June 18, 2016)

Language: English

ISBN-10: 1493937812

ISBN-13: 978-1493937813

Product Dimensions: 7.1 x 1.2 x 10.1 inches

Shipping Weight: 2.5 pounds (View shipping rates and policies)

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Ã¢â ¬Å"The book is an undergraduate textbook in mathematical finance with applications. Ã¢â ¬Â¦ The textbook is aimed at advanced undergraduates, and also at master's degree students who want a more rigorous treatment of the mathematical models in finance. This text will be a very good textbook for a year-long course on introductory mathematical finance.Ã¢â ¬Â• (Anatoliy Swishchuk, zbMATH 1348.91002, 2016)

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