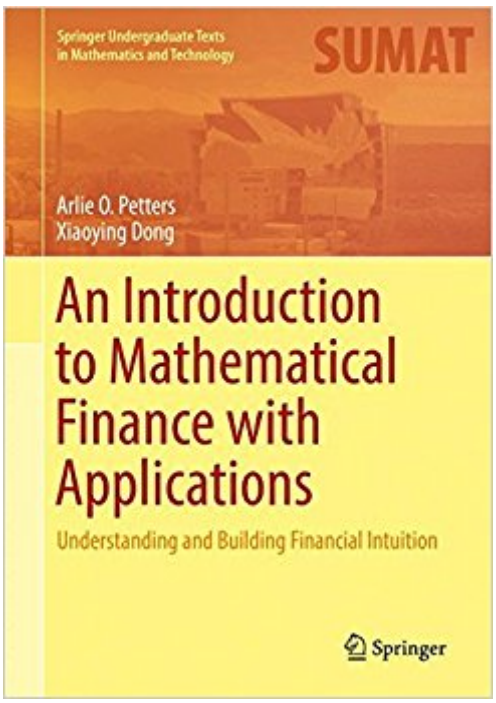
An Introduction To Mathematical Finance With Applications: Understanding And Building Financial Intuition (Springer Undergraduate Texts In Mathematics And Technology)



Synopsis

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

Book Information

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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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