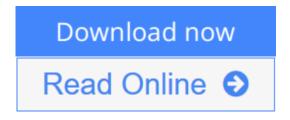# Introduction to the Mathematics of Finance: Arbitrage and Option Pricing (Undergraduate Texts in Mathematics)

By Steven Roman

Introduction to the Mathematics of Finance: Arbitrage and Option Pricing (Undergraduate Texts in Mathematics) By Steven Roman

The Mathematics of Finance has been a hot topic ever since the discovery of the Black-Scholes option pricing formulas in 1973. Unfortunately, there are very few undergraduate textbooks in this area. This book is specifically written for advanced undergraduate or beginning graduate students in mathematics, finance or economics. This book concentrates on discrete derivative pricing models, culminating in a careful and complete derivation of the Black-Scholes option pricing formulas as a limiting case of the Cox-Ross-Rubinstein discrete model.

This second edition is a complete rewrite of the first edition with significant changes to the topic organization, thus making the book flow much more smoothly. Several topics have been expanded such as the discussions of options, including the history of options, and pricing nonattainable alternatives. In this edition the material on probability has been condensed into fewer chapters, and the material on the capital asset pricing model has been removed.

The mathematics is not watered down, but it is appropriate for the intended audience. Previous knowledge of measure theory is not needed and only a small amount of linear algebra is required. All necessary probability theory is developed throughout the book on a "need-to-know" basis. No background in finance is required, since the book contains a chapter on options.

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Editorial Review

From the Back Cover

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About the Author
Steven Roman is currently an Emeritus Professor of Mathematics at the University of California. He is a prolific Springer author; some of his books include *Field Theory*, *Advanced Linear Algebra*, *Introduction to Coding and Information Theory*, and most recently *Fundamentals of Group Theory*.

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