



Stochastic Simulation and Applications in Finance with MATLAB Programs

By Huu Tue Huynh, Van Son Lai, Issouf Soumare

Download now

Read Online ➔

Stochastic Simulation and Applications in Finance with MATLAB Programs

By Huu Tue Huynh, Van Son Lai, Issouf Soumare

Stochastic Simulation and Applications in Finance with MATLAB Programs explains the fundamentals of Monte Carlo simulation techniques, their use in the numerical resolution of stochastic differential equations and their current applications in finance. Building on an integrated approach, it provides a pedagogical treatment of the need-to-know materials in risk management and financial engineering.

The book takes readers through the basic concepts, covering the most recent research and problems in the area, including: the quadratic re-sampling technique, the Least Squared Method, the dynamic programming and Stratified State Aggregation technique to price American options, the extreme value simulation technique to price exotic options and the retrieval of volatility method to estimate Greeks. The authors also present modern term structure of interest rate models and pricing swaptions with the BGM market model, and give a full explanation of corporate securities valuation and credit risk based on the structural approach of Merton. Case studies on financial guarantees illustrate how to implement the simulation techniques in pricing and hedging.

NOTE TO READER: The CD has been converted to URL. Go to the following website www.wiley.com/go/huynhstochastic which provides MATLAB programs for the practical examples and case studies, which will give the reader confidence in using and adapting specific ways to solve problems involving stochastic processes in finance.

↓ [Download Stochastic Simulation and Applications in Finance ...pdf](#)

📖 [Read Online Stochastic Simulation and Applications in Financ ...pdf](#)

Stochastic Simulation and Applications in Finance with MATLAB Programs

By Huu Tue Huynh, Van Son Lai, Issouf Soumare

Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare

Stochastic Simulation and Applications in Finance with MATLAB Programs explains the fundamentals of Monte Carlo simulation techniques, their use in the numerical resolution of stochastic differential equations and their current applications in finance. Building on an integrated approach, it provides a pedagogical treatment of the need-to-know materials in risk management and financial engineering.

The book takes readers through the basic concepts, covering the most recent research and problems in the area, including: the quadratic re-sampling technique, the Least Squared Method, the dynamic programming and Stratified State Aggregation technique to price American options, the extreme value simulation technique to price exotic options and the retrieval of volatility method to estimate Greeks. The authors also present modern term structure of interest rate models and pricing swaptions with the BGM market model, and give a full explanation of corporate securities valuation and credit risk based on the structural approach of Merton. Case studies on financial guarantees illustrate how to implement the simulation techniques in pricing and hedging.

NOTE TO READER: The CD has been converted to URL. Go to the following website www.wiley.com/go/huynhstochastic which provides MATLAB programs for the practical examples and case studies, which will give the reader confidence in using and adapting specific ways to solve problems involving stochastic processes in finance.

Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare **Bibliography**

- Sales Rank: #642248 in Books
- Published on: 2008-12-22
- Original language: English
- Number of items: 1
- Dimensions: 9.88" h x 1.03" w x 6.91" l, 1.70 pounds
- Binding: Hardcover
- 356 pages

 [Download Stochastic Simulation and Applications in Finance ...pdf](#)

 [Read Online Stochastic Simulation and Applications in Financ ...pdf](#)

Editorial Review

Users Review

From reader reviews:

Melvin Bragg:

The book Stochastic Simulation and Applications in Finance with MATLAB Programs gives you the sense of being enjoy for your spare time. You may use to make your capable much more increase. Book can for being your best friend when you getting pressure or having big problem with your subject. If you can make studying a book Stochastic Simulation and Applications in Finance with MATLAB Programs for being your habit, you can get a lot more advantages, like add your own capable, increase your knowledge about a few or all subjects. You are able to know everything if you like wide open and read a guide Stochastic Simulation and Applications in Finance with MATLAB Programs. Kinds of book are several. It means that, science guide or encyclopedia or other folks. So , how do you think about this reserve?

Carl Adams:

Are you kind of active person, only have 10 or 15 minute in your day time to upgrading your mind proficiency or thinking skill perhaps analytical thinking? Then you have problem with the book compared to can satisfy your small amount of time to read it because all of this time you only find guide that need more time to be study. Stochastic Simulation and Applications in Finance with MATLAB Programs can be your answer because it can be read by you who have those short free time problems.

Raymond Langford:

You may spend your free time to see this book this e-book. This Stochastic Simulation and Applications in Finance with MATLAB Programs is simple to deliver you can read it in the playground, in the beach, train and soon. If you did not get much space to bring the actual printed book, you can buy often the e-book. It is make you simpler to read it. You can save the book in your smart phone. Consequently there are a lot of benefits that you will get when one buys this book.

Jason Nimmons:

Do you like reading a e-book? Confuse to looking for your chosen book? Or your book had been rare? Why so many concern for the book? But just about any people feel that they enjoy intended for reading. Some people likes reading through, not only science book and also novel and Stochastic Simulation and Applications in Finance with MATLAB Programs as well as others sources were given information for you. After you know how the truly great a book, you feel desire to read more and more. Science book was created for teacher or even students especially. Those publications are helping them to bring their knowledge. In

some other case, beside science guide, any other book likes Stochastic Simulation and Applications in Finance with MATLAB Programs to make your spare time much more colorful. Many types of book like this.

Download and Read Online Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare #8WC6UVBG7K5

Read Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare for online ebook

Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare books to read online.

Online Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare ebook PDF download

Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare Doc

Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare Mobipocket

Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare EPub

8WC6UVBG7K5: Stochastic Simulation and Applications in Finance with MATLAB Programs By Huu Tue Huynh, Van Son Lai, Issouf Soumare