Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics)

Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics)

Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics)

Presenting state-of-the-art methods in the area, the book begins with a presentation of weak discrete time approximations of jump-diffusion stochastic differential equations for derivatives pricing and risk measurement. Using a moving least squares reconstruction, a numerical approach is then developed that allows for the construction of arbitrage-free surfaces. Free boundary problems are considered next, with particular focus on stochastic impulse control problems that arise when the cost of control includes a fixed cost, common in financial applications. The text proceeds with the development of a fear index based on equity option surfaces, allowing for the measurement of overall fear levels in the market. The problem of American option pricing is considered next, applying simulation methods combined with regression techniques and discussing convergence properties. Changing focus to integral transform methods, a variety of option pricing problems are considered. The COS method is practically applied for the pricing of options under uncertain volatility, a method developed by the authors that relies on the dynamic programming principle and Fourier cosine series expansions. Efficient approximation methods are next developed for the application of the fast Fourier transform for option pricing under multifactor affine models with stochastic volatility and jumps. Following this, fast and accurate pricing techniques are showcased for the pricing of credit derivative contracts with discrete monitoring based on the Wiener-Hopf factorisation. With an energy theme, a recombining pentanomial lattice is developed for the pricing of gas swing contracts under regime switching dynamics. The book concludes with a linear and nonlinear review of the arbitrage-free parity theory for the CDS and bond markets.

Download and Read Free Online Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics)

From reader reviews:

Lynnette Cash:

Have you spare time to get a day? What do you do when you have much more or little spare time? Yes, you can choose the suitable activity regarding spend your time. Any person spent their own spare time to take a walk, shopping, or went to typically the Mall. How about open or perhaps read a book allowed Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics)? Maybe it is for being best activity for you. You recognize beside you can spend your time using your favorite's book, you can more intelligent than before. Do you agree with their opinion or you have various other opinion?

Irma Patterson:

In this period of time globalization it is important to someone to obtain information. The information will make someone to understand the condition of the world. The condition of the world makes the information better to share. You can find a lot of references to get information example: internet, magazine, book, and soon. You will see that now, a lot of publisher which print many kinds of book. The actual book that recommended to your account is Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) this reserve consist a lot of the information on the condition of this world now. This particular book was represented how do the world has grown up. The dialect styles that writer require to explain it is easy to understand. The writer made some analysis when he makes this book. That's why this book suitable all of you.

Peter Chatman:

In this particular era which is the greater person or who has ability in doing something more are more precious than other. Do you want to become one of it? It is just simple way to have that. What you should do is just spending your time not much but quite enough to get a look at some books. One of several books in the top listing in your reading list is Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics). This book which is qualified as The Hungry Hillsides can get you closer in getting precious person. By looking right up and review this publication you can get many advantages.

Irene Gamino:

That e-book can make you to feel relax. This kind of book Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) was colorful and of course has pictures on the website. As we know that book Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) has many kinds or style. Start from kids until young adults. For example Naruto or Private eye Conan you can read and believe you are the character on there. So , not at all of book are generally make you bored, any it offers you feel happy, fun and chill out. Try to choose the best book for you and try to like reading in which.

Download and Read Online Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) #8R1QXUWCNFI

Read Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) for online ebook

Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) 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 Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) books to read online.

Online Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) ebook PDF download

Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) Doc

Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) Mobipocket

Topics in Numerical Methods for Finance (Springer Proceedings in Mathematics & Statistics) EPub