



Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)

By Tim Leung, Xin Li

Download now

Read Online 

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications provides a systematic study to the practical problem of optimal trading in the presence of mean-reverting price dynamics. It is self-contained and organized in its presentation, and provides rigorous mathematical analysis as well as computational methods for trading ETFs, options, futures on commodities or volatility indices, and credit risk derivatives.

This book offers a unique financial engineering approach that combines novel analytical methodologies and applications to a wide array of real-world examples. It extracts the mathematical problems from various trading approaches and scenarios, but also addresses the practical aspects of trading problems, such as model estimation, risk premium, risk constraints, and transaction costs. The explanations in the book are detailed enough to capture the interest of the curious student or researcher, and complete enough to give the necessary background material for further exploration into the subject and related literature.

This book will be a useful tool for anyone interested in financial engineering, particularly algorithmic trading and commodity trading, and would like to understand the mathematically optimal strategies in different market environments.

Readership: Doctoral and master's students, advanced undergraduates, practitioners, and researchers in financial engineering, with a particular interest or specialization in algorithmic trading (especially pairs trading) and ETFs, futures, commodities, volatility derivatives and credit risk.

 [Download Optimal Mean Reversion Trading: Mathematical Analy ...pdf](#)

 [Read Online Optimal Mean Reversion Trading: Mathematical Ana
...pdf](#)

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)

By Tim Leung, Xin Li

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications provides a systematic study to the practical problem of optimal trading in the presence of mean-reverting price dynamics. It is self-contained and organized in its presentation, and provides rigorous mathematical analysis as well as computational methods for trading ETFs, options, futures on commodities or volatility indices, and credit risk derivatives.

This book offers a unique financial engineering approach that combines novel analytical methodologies and applications to a wide array of real-world examples. It extracts the mathematical problems from various trading approaches and scenarios, but also addresses the practical aspects of trading problems, such as model estimation, risk premium, risk constraints, and transaction costs. The explanations in the book are detailed enough to capture the interest of the curious student or researcher, and complete enough to give the necessary background material for further exploration into the subject and related literature.

This book will be a useful tool for anyone interested in financial engineering, particularly algorithmic trading and commodity trading, and would like to understand the mathematically optimal strategies in different market environments.

Readership: Doctoral and master's students, advanced undergraduates, practitioners, and researchers in financial engineering, with a particular interest or specialization in algorithmic trading (especially pairs trading) and ETFs, futures, commodities, volatility derivatives and credit risk.

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li Bibliography

- Rank: #851896 in Books
- Published on: 2016-01-13
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .70" w x 6.20" l, .0 pounds
- Binding: Hardcover
- 220 pages

 [Download Optimal Mean Reversion Trading: Mathematical Analy ...pdf](#)

 [Read Online Optimal Mean Reversion Trading: Mathematical Ana ...pdf](#)

Download and Read Free Online Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li

Editorial Review

About the Author

Professor Tim Leung is an Associate Professor in the Department of Applied Mathematics and the Director of the Computational Finance & Risk Management (CFRM) program. Professor Leung obtained his PhD in Operations Research & Financial Engineering at Princeton University. He was previously an Assistant Professor in the Department of Applied Mathematics & Statistics at Johns Hopkins University and in the Department of Industrial Engineering & Operations Research at Columbia University.

Professor Leung's research areas are Financial Mathematics and Optimal Stochastic Control. He has worked on a variety of problems, such as derivatives pricing, algorithmic trading, credit risk, executive compensation, and exchange-traded funds (ETFs). His research has been funded by the National Science Foundation (NSF), and published in numerous journal articles. He has written two books, respectively, on Optimal Mean Reversion Trading, and ETFs. In 2016, he won the Emerald Literati Network Award.

Professor Leung is an Associate Editor of a number of journals, including SIAM Journal on Financial Math, Journal of Financial Engineering, Studies in Economics & Finance, High Frequency, and Digital Signal Processing. He is the founding editor of the book series, Modern Trends in Financial Engineering, that publishes monographs on important contemporary topics in theory and practice of Financial Mathematics & Engineering. Professor Leung regularly supervises PhD, MS, and undergraduate research projects, collaborates with academics, practitioners, and regulators, and he is active in conference organization. He is the Chair of the INFORMS Finance Section, and the Vice Chair of the SIAM Activity Group on Financial Mathematics & Engineering (SIAG-FME).

Users Review

From reader reviews:

Michael Stricklin:

Have you spare time for a day? What do you do when you have a lot more or little spare time? Yeah, you can choose the suitable activity intended for spend your time. Any person spent their very own spare time to take a go walking, shopping, or went to the particular Mall. How about open or read a book allowed Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)? Maybe it is to get best activity for you. You realize beside you can spend your time along with your favorite's book, you can better than before. Do you agree with their opinion or you have other opinion?

George Hughes:

The book Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) can give more knowledge and information about everything you want. So why must we leave a good thing like a book Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)? Several of you have a different opinion about reserve. But one aim that will book can give many info for us. It is absolutely proper. Right now, try to closer using your book. Knowledge or info that you take for that, you could give for each other; it is possible to share all of these. Book Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) has simple shape but the truth is know: it has great

and large function for you. You can search the enormous world by start and read a reserve. So it is very wonderful.

Ronald Folk:

Reading can called brain hangout, why? Because when you are reading a book specifically book entitled *Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)* your thoughts will drift away trough every dimension, wandering in each and every aspect that maybe unknown for but surely might be your mind friends. Imaging every single word written in a publication then become one contact form conclusion and explanation that will maybe you never get before. The *Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)* giving you one more experience more than blown away your mind but also giving you useful information for your better life in this particular era. So now let us explain to you the relaxing pattern the following is your body and mind will be pleased when you are finished reading it, like winning a casino game. Do you want to try this extraordinary wasting spare time activity?

Carolyn Lew:

Your reading sixth sense will not betray you actually, why because this *Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)* reserve written by well-known writer we are excited for well how to make book that may be understand by anyone who also read the book. Written within good manner for you, leaking every ideas and publishing skill only for eliminate your own hunger then you still uncertainty *Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)* as good book not simply by the cover but also by content. This is one e-book that can break don't judge book by its include, so do you still needing a different sixth sense to pick this kind of!? Oh come on your looking at sixth sense already said so why you have to listening to another sixth sense.

Download and Read Online *Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)* By Tim Leung, Xin Li #2MLHJZ837WE

Read Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li for online ebook

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li 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 Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li books to read online.

Online Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li ebook PDF download

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li Doc

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li Mobipocket

Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li EPub

2MLHJZ837WE: Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering) By Tim Leung, Xin Li