Provides a comprehensive and updated study of GARCH models and their applications in finance, covering new developments in the discipline

This book provides a comprehensive and systematic approach to understanding GARCH time series models and their applications whilst presenting the most advanced results concerning the theory and practical aspects of GARCH. The probability structure of standard GARCH models is studied in detail as well as statistical inference such as identification, estimation, and tests. The book also provides new coverage of several extensions such as multivariate models, looks at financial applications, and explores the very validation of the models used.

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- Features up-to-date coverage of the current research in the probability, statistics, and econometric theory of GARCH models
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• Handles both theoretical and applied aspects

• Applies to researchers in different fields (time series, econometrics, finance)

• Includes numerous illustrations and applications to real financial series

• Presents a large collection of exercises with corrections

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