



2017. XXI, 618 p. 95 illus. in color.

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J. G. De Gooijer

# Elements of Nonlinear Time Series Analysis and Forecasting

- Presents a detailed, almost encyclopedic account of nonlinear time series analysis
- Shows concrete applications of modern nonlinear time series analysis on a variety of empirical time series, with a liberal use of color graphics
- Provides a toolbox of discrete-time nonlinear models, methods, tests and concepts

This book provides an overview of the current state-of-the-art of nonlinear time series analysis, richly illustrated with examples, pseudocode algorithms and real-world applications. Avoiding a “theorem-proof” format, it shows concrete applications on a variety of empirical time series. The book can be used in graduate courses in nonlinear time series and at the same time also includes interesting material for more advanced readers. Though it is largely self-contained, readers require an understanding of basic linear time series concepts, Markov chains and Monte Carlo simulation methods. The book covers time-domain and frequency-domain methods for the analysis of both univariate and multivariate (vector) time series. It makes a clear distinction between parametric models on the one hand, and semi- and nonparametric models/methods on the other. This offers the reader the option of concentrating exclusively on one of these nonlinear time series analysis methods. To make the book as user friendly as possible, major supporting concepts and specialized tables are appended at the end of every chapter. In addition, each chapter concludes with a set of key terms and concepts, as well as a summary of the main findings. Lastly, the book offers numerous theoretical and empirical exercises, with answers provided by the author in [...]

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