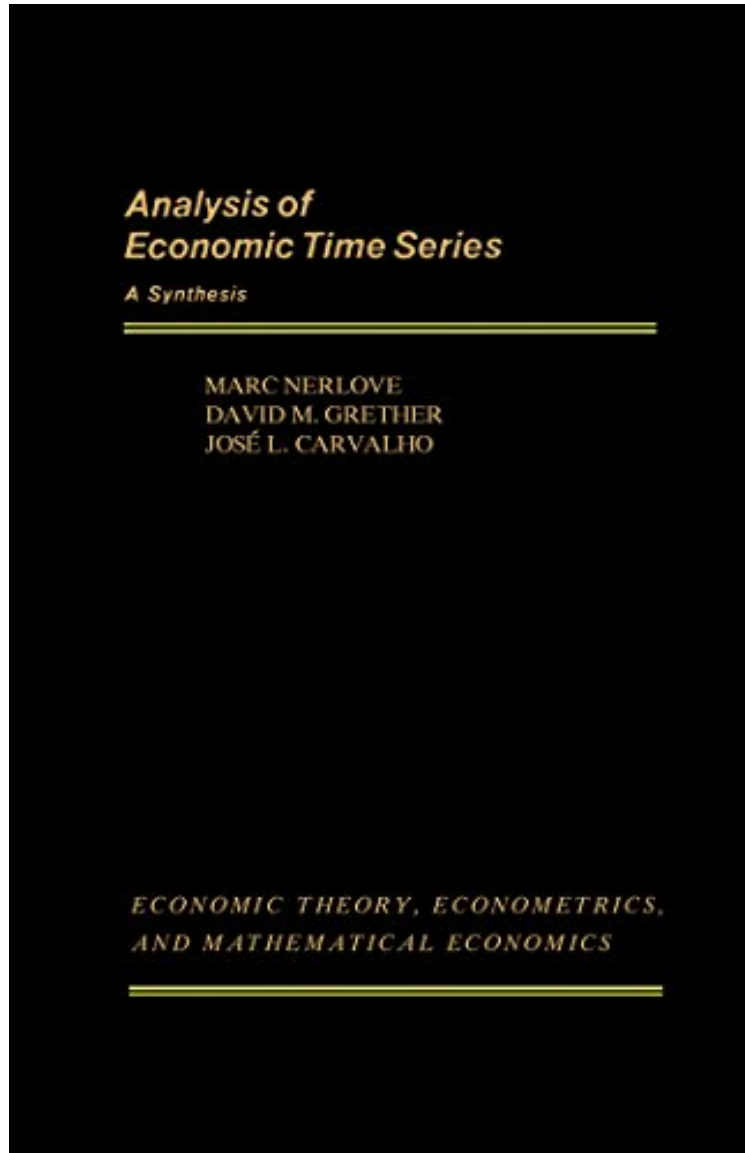


(Ebook pdf) Analysis of Economic Time Series: A Synthesis

Analysis of Economic Time Series: A Synthesis

Marc Nerlove, David M. Grether, Joseacute; L. Carvalho

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Marc Nerlove, David M. Grether, Joseacute; L. Carvalho : Analysis of Economic Time Series: A Synthesis
before purchasing it in order to gage whether or not it would be worth my time, and all praised Analysis of Economic Time Series: A Synthesis:

Analysis of Economic Time Series: A Synthesis integrates several topics in economic time-series analysis, including the formulation and estimation of distributed-lag models of dynamic economic behavior; the application of spectral

analysis in the study of the behavior of economic time series; and unobserved-components models for economic time series and the closely related problem of seasonal adjustment. Comprised of 14 chapters, this volume begins with a historical background on the use of unobserved components in the analysis of economic time series, followed by an Introduction to the theory of stationary time series. Subsequent chapters focus on the spectral representation and its estimation; formulation of distributed-lag models; elements of the theory of prediction and extraction; and formulation of unobserved-components models and canonical forms. Seasonal adjustment techniques and multivariate mixed moving-average autoregressive time-series models are also considered. Finally, a time-series model of the U.S. cattle industry is presented. This monograph will be of value to mathematicians, economists, and those interested in economic theory, econometrics, and mathematical economics.

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From the Back Cover
In this updated edition, Nerlove and his co-authors illustrate techniques of spectral analysis and methods based on parametric models in the analysis of economic time series. The book provides a means and a method for incorporating economic intuition and theory in the formulation of time-series models that are useful in forecasting, in the formulation and estimation of distributed lag models, and in other applications, such as seasonal adjustment. Analysis of Economic Time Series will be a useful primary text for graduate students and an attractive reference for researchers.
Key Features* Presents a self-contained treatment of Fourier analysis and complex variables, as well as spectral analysis of time series* Includes a detailed treatment of unobserved-components (UC) models and their time-series properties by means of covariance-generating transforms* Provides the formulation and maximum-likelihood estimation of ARMA and UC models in both time and frequency domains* Integrates several topics in time-series analysis, including:* The formulation and estimation of distributed-lag models of dynamic economic behavior* The application of the techniques of spectral analysis in the study of behavior of economic time series* Unobserved-components models for economic time series and the closely related problem of seasonal adjustment