Record Nr.	UNINA9910144694203321
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Titolo	Forecasting with univariate Box-Jenkins models [[electronic resource]] : concepts and cases / / Alan Pankratz
Pubbl/distr/stampa	New York, : Wiley, c1983
ISBN	1-282-30785-1 9786612307850 0-470-31656-X 0-470-31727-2
Descrizione fisica	1 online resource (587 p.)
Collana	Wiley series in probability and mathematical statistics. Probability and mathematical statistics., , 0271-6356
Disciplina	519.54 519.55
Soggetti	Time-series analysis Prediction theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliography and index.
Nota di contenuto	Forecasting With Univariate Box- Jenkins Models CONCEPTS AND CASES; CONTENTS; PART I. BASIC CONCEPTS; 1 Overview; 1.1 Planning and forecasting; 1.2 What this book is about; 1.3 Time-series data; 1.4 Single-series (univariate) analysis; 1.5 When may UBJ models be used?; 1.6 The Box-Jenkins modeling procedure; 1.7 UBJ models compared with other models; Summary; Questions and problems; 2 Introduction to Box-Jenkins analysis of a single data series; 2.1 Differencing; 2.2 Deviations from the mean 2.3 Two analytical tools: the estimated autocorrelation function (acf) and estimated partial autocorrelation function (pacf)Summary; Questions and problems; 3 Underlying statistical principles; 3.1 Process, realization, and model; 3.2 Two common processes; 3.3 Statistical inference at the identification stage; Summary; Appendix 3 A: Expected value rules and definitions; Questions and problems; 4 An introduction to the practice of ARIMA modeling; 4.1 What is a good model?; 4.2 Two examples of UBJ-ARIMA modeling; Summary; Questions and problems; 5 Notation and the interpretation of ARIMA

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	 5.1 Three processes and ARIMA (p,d,q) notation5.2 Backshift notation; 5.3 Interpreting ARIMA models I: optimal extrapolation of past values of a single series; 5.4 Interpreting ARIMA models II: rationalizing them from their context; 5.5 Interpreting ARIMA models III: ARIMA(O,d,q) models as exponentially weighted moving averages; Summary; Questions and problems; 6 Identification: stationary models; 6.1 Theoretical acfs and pacf's for five common processes; 6.2 Stationarity; 6.3 Invertibility; 6.4 Deriving theoretical acf's for the MA(1) process 6.5 Deriving theoretical acf's for the AR(1) process 6.5 Deriving theoretical acf's for the AR(1) process 6.5 Deriving theoretical acf's for the AR(1) process 6.6 Deriving theoretical acf's for the AR(1) process 6.7 The formal conditions for stationarity and invertibility; Appendix 6B Invertibility, uniqueness, and forecast performance; Questions and problems; 7 Identification: nonstationary models; 7.1 Nonstationary mean; 7.2 Nonstationary variance; 7.3 Differencing and deterministic trends; Summary; Appendix 7A: Integration; 8.3 Estimation; 8.1 Principles of estimation; 8.2 Nonlinear least-squares estimation; 8.3 Estimation-stage results: have we found a good model?; Summary; Appendix 8A: Marquardt's compromise; 8A.1 Overview 8A.2 Application to an MA(1)Appendix 8B: Backcasting; 8B.1 Conditional least squares; 9 Diagnostic checks; 9.3 Reformulating a model; Summary; Questions and problems; 10 Forecasting; 10.4 The optimality of ARIMA forecasts; Summary; Appendix 10A: The complementarity of ARIMA models and econometric models; Questions and problems; 10 Art the optimality of ARIMA models and econometric models; Questions and problems; 10.4 The optimality of ARIM	
Sommario/riassunto	Explains the concepts and use of univariate Box-Jenkins/ARIMA analysis and forecasting through 15 case studies. Cases show how to build good ARIMA models in a step-by-step manner using real data. Also includes examples of model misspecification. Provides guidance to alternative models and discusses reasons for choosing one over another.	