

1. Record Nr.	UNINA9910299775903321
Autore	Ohtsu Kohei
Titolo	Time Series Modeling for Analysis and Control : Advanced Autopilot and Monitoring Systems // by Kohei Ohtsu, Hui Peng, Genshiro Kitagawa
Pubbl/distr/stampa	Tokyo : , : Springer Japan : , : Imprint : Springer, , 2015
ISBN	4-431-55303-7
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (127 p.)
Collana	JSS Research Series in Statistics, , 2364-0065
Disciplina	519.55
Soggetti	Statistics Mathematical statistics - Data processing Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences Statistics and Computing Statistical Theory and Methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Ch1 Introduction (1.1 Necessity of Statistical Modeling for Complex, Large Systems -- 1.2 Model of Ship Motion and Main Engine -- 1.3 Experimental Ships and Outline of Topics Discussed in Remaining Chapters) -- Ch2 Time Series Analysis through AR Modeling (2.1 Univariate Time Series Analysis through AR Modeling -- 2.2 Analysis of Ship Motion through Univariate AR Modeling -- 2.3 Multivariate AR Modeling of Controlled Systems -- 2.4 Power Contribution Analysis of a Feedback System -- 2.5 State-Space Model and Kalman Filter -- 2.6 Piecewise Stationary Modeling -- 2.7 Model-Based Monitoring System -- 2.8 RBF-ARX Modeling for a Nonlinear System) -- Ch3 Design of a Model-Based Autopilot System for Course Keeping Motion (3.1 Statistical Optimal Controller Based on the ARX Model -- 3.2 AR Model-Based Autopilot System -- 3.3 Rudder-Roll Control System -- 3.4 Application to the Marine Main Engine Governor System) -- Ch4 Advanced Autopilot Systems (4.1 Noise-Adaptive Autopilot System -- 4.2 RBF-ARX Model-Based Predictive Control -- 4.3 GPS Signal-Based Computation of a Ship's Tracking Error and Course Deviation -- 4.4 Tracking Control Approach to Marine Vehicles).

This book presents multivariate time series methods for the analysis and optimal control of feedback systems. Although ships' autopilot systems are considered through the entire book, the methods set forth in this book can be applied to many other complicated, large, or noisy feedback control systems for which it is difficult to derive a model of the entire system based on theory in that subject area. The basic models used in this method are the multivariate autoregressive model with exogenous variables (ARX) model and the radial bases function net-type coefficients ARX model. The noise contribution analysis can then be performed through the estimated autoregressive (AR) model and various types of autopilot systems can be designed through the state-space representation of the models. The marine autopilot systems addressed in this book include optimal controllers for course-keeping motion, rolling reduction controllers with rudder motion, engine governor controllers, noise adaptive autopilots, route-tracking controllers by direct steering, and the reference course-setting approach. The methods presented here are exemplified with real data analysis and experiments on real ships. This book is highly recommended to readers who are interested in designing optimal or adaptive controllers not only of ships but also of any other complicated systems under noisy disturbance conditions.

2. Record Nr.	UNINA9910955500403321
Autore	Goddard Angela <1954->
Titolo	Discourse : the basics / / Angela Goddard and Neil Carey
Pubbl/distr/stampa	London : , : Routledge, , 2017
ISBN	1-351-75771-7 1-315-19331-0 1-351-75770-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (193 pages) : illustrations (some color)
Collana	Basics
Altri autori (Persone)	CareyNeil (Psychologist)
Disciplina	401.41
Soggetti	Discourse analysis - Study and teaching Discourse analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Defining discourse -- 2. Discourse and context : a practical exercise -- 3. Language, thought and discourse -- 4. Language, society and discourse -- 5. Discourse and metaphor -- 6. Discourse and rhetoric -- 7. Discourse and interactivity -- 8. Discourse and narrative -- 9. Discourse and identity -- 10. Collecting and representing discourse.
Sommario/riassunto	Discourse: The Basics is an accessible and engaging introduction to the analysis of human interactions and the many forms, expressions and meanings they can take. The book draws on a range of international case studies and examples to address key questions such as: What is discourse? Why are there different approaches to understanding discourse? What issues affect the collection and management of discourse? How can discourse be represented? Including subject summaries, a glossary of key terms and suggestions for further reading, Discourse: The Basics is an essential guide for students in the Humanities and Social Sciences who are approaching discourse for the first time.