1. **Record Nr.** UNINA9911020365003321

Titolo	Classification, parameter estimation, and state estimation : an engineering approach using MATLAB / / F. van der Heijden ... [et al.]
Pubbl/distr/stampa	Chichester, West Sussex, Eng. ; ; Hoboken, NJ, : Wiley, c2004
ISBN	9786610268955 9781280268953 1280268956 9780470090152 0470090154 9781601194961 160119496X 9780470090145 0470090146
Edizione	[1st edition]
Descrizione fisica	1 online resource (441 p.)
Altri autori (Persone)	HeijdenFerdinand van der
Disciplina	681/.2
Soggetti	Engineering mathematics - Data processing Measurement - Data processing Estimation theory - Data processing
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 and index.
Nota di contenuto	Classification, Parameter Estimation and State Estimation; Contents; Preface; Foreword; 1 Introduction; 1.1 The scope of the book; 1.1.1 Classification; 1.1.2 Parameter estimation; 1.1.3 State estimation; 1.1.4 Relations between the subjects; 1.2 Engineering; 1.3 The organization of the book; 1.4 References; 2 Detection and Classification; 2.1 Bayesian classification; 2.1.1 Uniform cost function and minimum error rate; 2.1.2 Normal distributed measurements; linear and quadratic classifiers; 2.2 Rejection; 2.2.1 Minimum error rate classification with reject option 2.3 Detection: the two-class case2.4 Selected bibliography; 2.5 Exercises; 3 Parameter Estimation; 3.1 Bayesian estimation; 3.1.1 MMSE estimation; 3.1.2 MAP estimation; 3.1.3 The Gaussian case with linear

Sommario/riassunto	Classification, Parameter Estimation and State Estimation is a practical guide for data analysts and designers of measurement systems and postgraduates students that are interested in advanced measurement systems using MATLAB. 'Prtools' is a powerful MATLAB toolbox for pattern recognition and is written and owned by one of the co-authors, B. Duin of the Delft University of Technology. After an introductory chapter, the book provides the theoretical construction for classification, estimation and state estimation. The book also deals with the skills required to bring the theoretical co