1. Record Nr. UNINA9910309654803321

Autore	Jacquin, Nikolaus Joseph : von
Titolo	Nicolai Josephi Jacquin Enumeratio stirpium plerarumque, quæ sponte crescunt in agro Vindobonensi, montibusque confinibus. Accedunt observationum centuria et appendix de paucis exoticis. Cum tabulis æneis
Pubbl/distr/stampa	Vindobonæ, : impensis, Joannis Pauli Kraus, 1762 ((Vindobonæ) : typis Josephi Kurtzbock, universit. typogr., 1762
Descrizione fisica	[4], 315, [9] p., IX c. di tav., di cui 8 rip. : ill. calcogr. ; 8°
Locazione	DBV
Collocazione	D V 57
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Ill. disegnate dallo stesso Jacquin Fregio xilogr. sul front.

2. 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

sensors; 3.1.4 Maximum likelihood estimation; 3.1.5 Unbiased linear MMSE estimation; 3.2 Performance of estimators; 3.2.1 Bias and covariance; 3.2.2 The error covariance of the unbiased linear MMSE estimator; 3.3 Data fitting; 3.3.1 Least squares fitting; 3.3.2 Fitting using a robust error norm; 3.3.3 Regression; 3.4 Overview of the family of estimators; 3.5 Selected bibliography
3.6 Exercises4 State Estimation; 4.1 A general framework for online estimation; 4.1.1 Models; 4.1.2 Optimal online estimation; 4.2 Continuous state variables; 4.2.1 Optimal online estimation in linear-Gaussian systems; 4.2.2 Suboptimal solutions for nonlinear systems; 4.2.3 Other filters for nonlinear systems; 4.3 Discrete state variables; 4.3.1 Hidden Markov models; 4.3.2 Online state estimation; 4.3.3 Offline state estimation; 4.4 Mixed states and the particle filter; 4.4.1 Importance sampling; 4.4.2 Resampling by selection; 4.4.3 The condensation algorithm; 4.5 Selected bibliography
4.6 Exercises5 Supervised Learning; 5.1 Training sets; 5.2 Parametric learning; 5.2.1 Gaussian distribution, mean unknown; 5.2.2 Gaussian distribution, covariance matrix unknown; 5.2.3 Gaussian distribution, mean and covariance matrix both unknown; 5.2.4 Estimation of the prior probabilities; 5.2.5 Binary measurements; 5.3 Nonparametric learning; 5.3.1 Parzen estimation and histogramming; 5.3.2 Nearest neighbour classification; 5.3.3 Linear discriminant functions; 5.3.4 The support vector classifier; 5.3.5 The feed-forward neural network; 5.4 Empirical evaluation; 5.5 References
5.6 Exercises6 Feature Extraction and Selection; 6.1 Criteria for selection and extraction; 6.1.1 Inter/intra class distance; 6.1.2 Chernoff-Bhattacharyya distance; 6.1.3 Other criteria; 6.2 Feature selection; 6.2.1 Branch-and-bound; 6.2.2 Suboptimal search; 6.2.3 Implementation issues; 6.3 Linear feature extraction; 6.3.1 Feature extraction based on the Bhattacharyya distance with Gaussian distributions; 6.3.2 Feature extraction based on inter/intra class distance; 6.4 References; 6.5 Exercises; 7 Unsupervised Learning; 7.1 Feature reduction; 7.1.1 Principal component analysis
7.1.2 Multi-dimensional scaling

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

3.

Record Nr.	UNINA9910964136003321
Autore	Hurley William G
Titolo	Transformers and inductors for power electronics : theory, design and applications / / W.G. Hurley, W.H. Wolfle
Pubbl/distr/stampa	Hoboken, : Wiley-Blackwell, 2013
ISBN	9781118544662 1118544668 9781299315747 1299315747 9781118544679 1118544676 9781118544648 1118544641
Descrizione fisica	xxv, 344 p. : ill
Altri autori (Persone)	WolfleWerner H
Disciplina	621.31/4
Soggetti	Electric inductors - Design and construction Electric transformers - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	section I. Inductors -- section II. Transformers -- section III. Advanced topics.
Sommario/riassunto	Based on the fundamentals of electromagnetics, this clear and concise text explains basic and applied principles of transformer and inductor design for power electronic applications. It details both the theory and practice of inductors and transformers employed to filter currents, store electromagnetic energy, provide physical isolation between circuits, and perform stepping up and down of DC and AC voltages. The authors present a broad range of applications from modern power conversion systems. They provide rigorous design guidelines based on a robust methodology for inductor and transformer design. They offer real design examples, informed by proven and working field examples. Key features include: * emphasis on high frequency design, including optimisation of the winding layout and treatment of non-sinusoidal

waveforms * a chapter on planar magnetic with analytical models and descriptions of the processing technologies * analysis of the role of variable inductors, and their applications for power factor correction and solar power * unique coverage on the measurements of inductance and transformer capacitance, as well as tests for core losses at high frequency * worked examples in MATLAB, end-of-chapter problems, and an accompanying website containing solutions, a full set of instructors' presentations, and copies of all the figures. Covering the basics of the magnetic components of power electronic converters, this book is a comprehensive reference for students and professional engineers dealing with specialised inductor and transformer design. It is especially useful for senior undergraduate and graduate students in electrical engineering and electrical energy systems, and engineers working with power supplies and energy conversion systems who want to update their knowledge on a field that has progressed considerably in recent years.