1. Record Nr. UNINA9910141778803321 Autore Gregson Robert A. M. **Titolo** Informative psychometric filters / / Robert A. M. Gregson Pubbl/distr/stampa Canberra,: ANU Press, 2006 Canberra, Australia:,: ANU E Press,, 2006 ©2006 **ISBN** 9781920942663 (ebook) 1920942653 (paperback) Descrizione fisica 1 online resource (322 pages): illustrations; digital, PDF file(s) Disciplina 003.857015118 Chaotic behavior in systems - Mathematical models Soggetti Time-series analysis - Mathematical models Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Information, Entropy and Transmission -- Transients onto Attractors --Inter- and Intra-level Dynamics of Models -- A Bivariate Entropic Analogue of the Schwarzian Derivative -- Tribonacci and Long Memory -- Rescorla's Theory of Conditioning -- Nonlinearity, Nonstationarity and Concatenation -- Time Series of Disasters -- Perron-Frobenius at the Edge of Chaos -- ; Appendix: Nonlinear Psychophysical Dynamics. This book is a series of case studies with a common theme. Some refer Sommario/riassunto closely to previous work by the author, but contrast with how they have been treated before, and some are new. Comparisons are drawn using various sorts of psychological and psychophysiological data that characteristically are particularly nonlinear, non-stationary, far from equilibrium and even chaotic, exhibiting abrupt transitions that are both reversible and irreversible, and failing to meet metric properties. A core idea is that both the human organism and the data analysis

procedures used are filters, that may variously preserve, transform,

distort or even destroy information of significance.