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Titolo	Memory function approaches to stochastic problems in condensed matter [[electronic resource] /] / edited by Myron W. Evans, Paolo Grigolini, Giuseppe Pastori Parravicini
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Altri autori (Persone)	EvansMyron W <1950-> (Myron Wyn) GrigoliniPaolo Pastori ParraviciniGiuseppe
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Soggetti	Condensed matter Molecular dynamics Stochastic processes Relaxation methods (Mathematics) Chemistry, Physical and theoretical
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Nota di contenuto	MEMORY FUNCTION APPROACHES TO STOCHASTIC PROBLEMS IN CONDENSED MATTER; CONTENTS; I. Theoretical Foundations; II. Basic Description of the Rules Leading to the Adiabatic Elimination of Fast Variables; III. Continued Fractions in the Theory of Relaxation; IV. Memory Function Methods in Wid State Physics; V. Molecular Dynamics: Intense External Fields; VI. Nonlinear Effects in Molecular Dynamics of the Liquid State; VII. Dynamical bproperties of Hydrogen-Bonded Liquids; VIII. Slow Motion EPR Spectra in Terms of a Generalized Langevin Equation; IX. The Theory of chemical Reaction Rates X. Experimental Investigation on the Effect of Multiplicative Noise by

Means of Electric CircuitsXI. Interdisciplinary Subjects (Population Genetics): The Time Properties of a Model of Random Fluctuating Selection; XII. Stochastic Processes in Astrophysics: Stellar Formation and Galactic Evolution; Author Index; Subject Index

Sommario/riassunto

An international group of scholars presents a very important development in the theory of relaxation processes. For the first time, the basic equations of motion have been put into a form suitable for computation of a variety of observable phenomena in several different disciplines. This book begins with a description of the foundations of the memory function techniques, of the adiabatic elimination procedure and of the mathematics of continued fractions. It also covers depth relaxation phenomena in several areas of physics, chemistry, biology, electronic engineering, spectroscopy, computer si

2. Record Nr.	UNICASTO00303050
Autore	Rasi, Luigi <1852-1918>
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