

1. Record Nr.	UNINA9910449888403321
Autore	Pyysiainen Ilkka
Titolo	How religion works [[electronic resource]] : towards a new cognitive science of religion / / by Ilkka Pyysiainen
Pubbl/distr/stampa	Leiden ; ; Boston, : Brill, 2003
ISBN	1-280-46783-5 9786610467839 1-4237-1442-3 90-474-0260-X
Descrizione fisica	1 online resource (285 p.)
Disciplina	200/.1/9
Soggetti	Psychology, Religious Electronic books.
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 (p. [237]-266) and indexes.
Nota di contenuto	Contents; Preface; CHAPTER ONE Introduction: Cognitive Approach to Religion; CHAPTER TWO God and Transcendence; CHAPTER THREE Religion and Culture; CHAPTER FOUR Religion and the Social; CHAPTER FIVE Religious Belief, Experience, and Ritual; CHAPTER SIX Religion, "Worldview," and Ethics; CHAPTER SEVEN Religion and Cognition: Towards a New Science of Religion; References; Index of Names; Index of Subjects
Sommario/riassunto	Modern findings in cognitive science and evolutionary psychology provide insights to the processes which make religious beliefs and behaviours efficient attractors in and across cultural settings. This text discusses how certain kinds of counter-intuitive ideas are selected for religious use.

2. Record Nr.	UNINA9910786748903321
Autore	Simiu Emil
Titolo	Chaotic transitions in deterministic and stochastic dynamical systems : applications of Melnikov processes in engineering, physics, and neuroscience / / Emil Simiu
Pubbl/distr/stampa	Princeton, New Jersey : , : Princeton University Press, , 2002 ©2002
ISBN	0-691-05094-5 1-4008-3250-0
Descrizione fisica	1 online resource (244 p.)
Collana	Princeton Series in Applied Mathematics
Disciplina	515/.352
Soggetti	Differentiable dynamical systems Chaotic behavior in systems Stochastic systems
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	Front matter -- Contents -- Preface -- Chapter 1. Introduction -- PART 1. FUNDAMENTALS -- Chapter 2. Transitions in Deterministic Systems and the Melnikov Function -- Chapter 3. Chaos in Deterministic Systems and the Melnikov Function -- Chapter 4. Stochastic Processes -- Chapter 5. Chaotic Transitions in Stochastic Dynamical Systems and the Melnikov Process -- PART 2. APPLICATIONS -- Chapter 6. Vessel Capsizing -- Chapter 7. Open-Loop Control of Escapes in Stochastically Excited Systems -- Chapter 8. Stochastic Resonance -- Chapter 9. Cutoff Frequency of Experimentally Generated Noise for a First-Order Dynamical System -- Chapter 10. Snap-Through of Transversely Excited Buckled Column -- Chapter 11. Wind-Induced Along-Shore Currents over a Corrugated Ocean Floor -- Chapter 12. The Auditory Nerve Fiber as a Chaotic Dynamical System -- Appendix A1 Derivation of Expression for the Melnikov Function -- Appendix A2 Construction of Phase Space Slice through Stable and Unstable Manifolds -- Appendix A3 Topological Conjugacy -- Appendix A4 Properties of Space 2 -- Appendix A5 Elements of Probability Theory -- Appendix A6 Mean Upcrossing Rate u_1 for Gaussian Processes -- Appendix A7

Sommario/riassunto

The classical Melnikov method provides information on the behavior of deterministic planar systems that may exhibit transitions, i.e. escapes from and captures into preferred regions of phase space. This book develops a unified treatment of deterministic and stochastic systems that extends the applicability of the Melnikov method to physically realizable stochastic planar systems with additive, state-dependent, white, colored, or dichotomous noise. The extended Melnikov method yields the novel result that motions with transitions are chaotic regardless of whether the excitation is deterministic or stochastic. It explains the role in the occurrence of transitions of the characteristics of the system and its deterministic or stochastic excitation, and is a powerful modeling and identification tool. The book is designed primarily for readers interested in applications. The level of preparation required corresponds to the equivalent of a first-year graduate course in applied mathematics. No previous exposure to dynamical systems theory or the theory of stochastic processes is required. The theoretical prerequisites and developments are presented in the first part of the book. The second part of the book is devoted to applications, ranging from physics to mechanical engineering, naval architecture, oceanography, nonlinear control, stochastic resonance, and neurophysiology.
