

1. Record Nr.	UNINA9910450734003321
Autore	Ivancevic Vladimir G
Titolo	Natural biodynamics [[electronic resource] /] / Vladimir G. Ivancevic, Tijana T. Ivancevic
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2005
ISBN	1-281-89915-1 9786611899158 981-270-316-0
Descrizione fisica	1 online resource (1036 p.)
Altri autori (Persone)	IvancevicTijana T
Disciplina	612
Soggetti	Human physiology Human biology Human physiology - Mathematical models Human biology - Mathematical models 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. 947-977) and index.
Nota di contenuto	Preface; Glossary of Frequently Used Symbols; Contents; 1. Introduction; 2. Natural Language of Biodynamics; 3. Natural Geometry of Biodynamics; 4. Natural Mechanics of Biodynamics; 5. Natural Topology of Biodynamics; 6. Natural Control and Self-organization in Biodynamics; 7. Natural Brain Dynamics and Sensory-Motor Integration; Appendix A; Bibliography; Index
Sommario/riassunto	This comprehensive volume is a graduate-level text in human biodynamics, written in the unified categorical language of modern differential geometry and topology. Combining mathematics, physics and robotics with human physiology, this is the first book that describes all levels of human biodynamics, from musculo-skeletal mechanics to the higher brain functions. The book develops and uses a variety of research methods, ranging from chaos theory and Haken's synergetics, through quantum mechanics, to nonlinear control and artificial intelligence, to provide the means to understand, predict and

