1. Record Nr. UNINA990001266260403321

Autore	Kothe, Gottfried
Titolo	Topologiche Lineare Raume I / de Kathe
Pubbl/distr/stampa	Berlin : Springer-Verlag, 1960
Collana	Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen
Locazione	MA1
Collocazione	C-28-(107
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Titolo	Physics in Living Matter [[electronic resource]] : Proceedings of the Tenth Gwatt Workshop Held in Gwatt, Switzerland, October 16-18, 1986 / / edited by Dionys Baeriswyl, Michel Droz, Andreas Malaspinas, Piero Martinoli
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1987
ISBN	3-540-47803-5
Edizione	[1st ed. 1987.]
Descrizione fisica	1 online resource (V, 180 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 284
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Soggetti	Biophysics Biological physics Thermodynamics Statistical physics Dynamical systems Biochemistry Biological and Medical Physics, Biophysics Complex Systems Biochemistry, general Statistical Physics and Dynamical Systems

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Formato	Materiale a stampa
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Nota di contenuto	The protein as a physics laboratory -- The physics of evolution -- Symmetries in biology -- Calculation of protein structures from NMR data -- Structural analysis at molecular dimensions of proteins and protein assemblies using Electron Microscopy (EM) and image processing -- Magnetic resonance imaging in medicine -- Digital image processing -- Physics of biological membranes -- Transport and signal transfer across biomembranes -- Chemical instabilities and applications of biological interest -- The innervation of skeletal muscles: Properties emerging from a random neural network -- Physics of the brain -- Models of neural networks -- Nonabelian neurodynamics.
Sommario/riassunto	It was the aim of the 10th workshop in Gwatt (Switzerland), October 1986 to elucidate the twofold impact of physics on the life sciences. On the one hand, the powerful techniques developed for studying complex physical phenomena are very useful in the biological context. Equally useful, on the other hand, are certain physical concepts, such as symmetry and symmetry breaking, linear and nonlinear stability, frustration and constrained dynamics. In this respect the book presents exemplary contributions on topics such as - studies of the symmetries and structure of biological systems using NMR, electron microscopy and image processing; - thermodynamics and transport properties of biomembranes; - physics of proteins and applications in biotechnology; - neural networks and brain research; - the theory of evolution. Researchers in physics, particularly in statistical and biophysics, biology, physiology and medicine will find this book an excellent survey of the most lively fields of physics in living matter.