

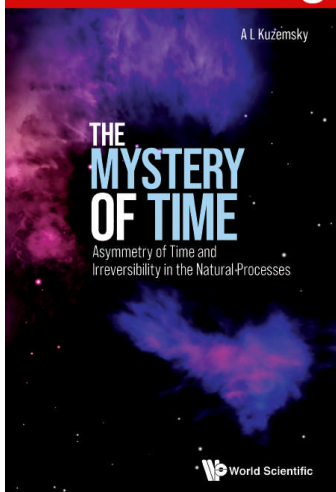
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Forthcoming



The Mystery of Time

Asymmetry of Time and Irreversibility in the Natural Processes

<https://doi.org/10.1142/13161>

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Description

Authors

The book focuses on the study of the temporal behavior of complex many-particle systems. The phenomenon of time and its role in the temporal evolution of complex systems is a remaining mystery. The book presents the necessity of the interdisciplinary point of view regarding on the phenomenon of time.

The aim of the present study is to summarize and formulate in a concise but clear form the trends and approaches to the concept of time from a broad interdisciplinary perspective exposing tersely the complementary approaches and theories of time in the context of thermodynamics, statistical physics, cosmology, theory of information, biology and biophysics, including the problem of time and aging. Various approaches to the problem show that time is an extraordinarily interdisciplinary and multifaceted underlying notion which plays an extremely important role in various natural complex processes.

Contents:

- The Enigma of Time
- The Physics of Time
- Time in Classical and Quantum Mechanics
- The Entropy Concept
- Methods of Statistical Mechanics
- The Exotic Thermodynamic States
- Entropy: Development and Generalization
- Irreversibility and Natural Processes
- Temporal Evolution and Arrow of Time
- The Physics of Nonequilibrium Processes
- Life, Complexity and Time
- Bibliography

Readership: Academic, physicists, chemists, biologists, historian of sciences, general public.

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