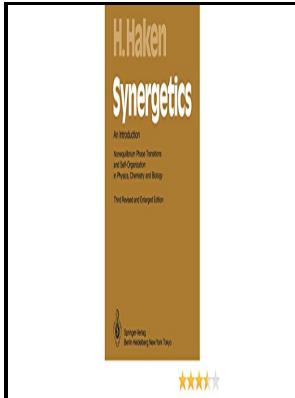


Synergetics - an introduction : nonequilibrium phase transitions and self-organization in physics, chemistry, and biology

Springer-Verlag - Synergetics

Description: -



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Argentina -- Politics and government -- 1910-1943
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System theory.Synergetics - an introduction : nonequilibrium phase transitions and self-organization in physics, chemistry, and biology

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Springer series in synergetics ;Synergetics - an introduction : nonequilibrium phase transitions and self-organization in physics, chemistry, and biology

Notes: Includes bibliographical references and index.

This edition was published in 1978



Filesize: 15.101 MB

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The following article deals with an aspect of synergetics of particular interest: Are there general principles that govern the self-organized production of macroscopic structures irrespective of the nature of the individual parts? Loskutov: Foundations of Synergetics II. On the other hand, the properties of laser light can be understood only if we assume that the transitions of the individual electrons occur in a correlated fashion. Haken Institut für theoretische Physik der Universität D-7000 Stuttgart Abstract Synergetics is concerned with the cooperation of individual parts of a system that produces macroscopic spatial, temporal, or functional structures.

Synergetics (Haken)

Finally, I discuss relations between Synergetics and Complexity Science.

Synergetics

Such phenomena occur in many fields ranging from physics, chemistry and biology to economy and sociology.

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Furthermore, as in living of these systems can be maintained only by a flux of organisms, the functioning energy and matter through them.

An Introduction

After the implementation of the first laser in 1960, Professor Haken developed his institute to an international center for laser theory. Above laser threshold, a practically infinitely long wave track is produced. Hermann Haken is Professor of the Institute for Theoretical Physics at the University

of Stuttgart.

SYNERGETICS BY HERMANN HAKEN

This is also reflected by the fact that it has been translated into Russian, Japanese, Chinese, German, and other languages, and that the second edition has also sold out. Synergetics : An Introduction Nonequilibrium Phase Transitions and Self-Organization in Physics, Chemistry and Biology The spontaneous formation of well organized structures out of germs or even out of chaos is one of the most fascinating phenomena and most challenging problems scientists are confronted with. Distributed active systems 2nd rev.

Synergetics : Introduction and Advanced Topics by Hermann Haken (2012, Trade Paperback) for sale online

The reason for this publication is two-fold: Since synergetics is a new type of interdisciplinary field, initiated by the author in 1969, the basic ideas developed in these volumes are of considerable theoretical interest. In recent years it has become more and more evident that there exist numerous examples in physical and chemical systems where well organized spatial, temporal, or spatio-temporal structures arise out of chaotic states.

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