

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

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

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First, I have largely revised the section on self-organization in continuously extended media and entirely rewritten the section on the Benard instability.

The Brain as a Synergetic and Physical System

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.

An Introduction

Many professors and students have expressed the view that the present book provides a good introduction to this new field. Therefore I have added a whole new chapter on the fascinating and rapidly growing field of chaos dealing with irregular motion caused by deterministic forces. They provide both the beginning graduate student and the seasoned researcher with solid knowledge of the basic concepts and mathematical tools.

Synergetics

An ever-increasing number of scientific papers are published on the subject, and numerous conferences all over the world are devoted to it. It had found excellent critics and enthusiastic responses from professors and students welcoming this new interdisciplinary approach.

Synergetics, Naturwissenschaften

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? Many professors and students have expressed the view that the present book provides a good introduction to this new field. Finally, I discuss relations between Synergetics and Complexity Science.

SYNERGETICS BY HERMANN HAKEN

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. Within synergetics it has turned out that is a quite typical equation describing effects of self-organization.

Synergetics: Introduction and Advanced Topics

As a consequence, self-organization means an enormous reduction of entropy of the system which macroscopically reveals an increase of 'order' pattern-formation. Synergetics, an interdisciplinary research program initiated by H.

Synergetics

Hermann Haken has been visiting professor or guest scientist in England, France, Japan, USA, Russia, and China. It is founded by , inspired by the theory. 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.

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