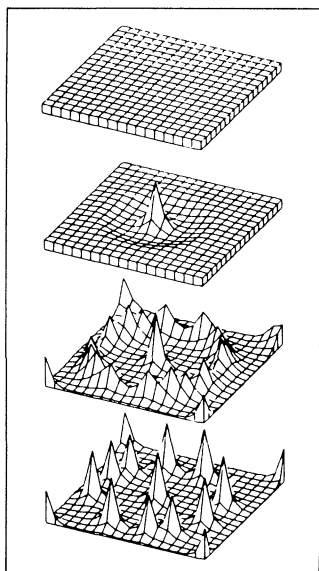


Synergetics

– an exciting new field
of interdisciplinary research



H. HAKEN

Synergetics

An Introduction

Nonequilibrium Phase Transitions and Self-Organization in Physics, Chemistry and Biology

2nd enlarged edition. 1978. 152 figures, 4 tables. XII, 355 pages
Cloth DM 66,—; US \$36.30 ISBN 3-540-08866-0

“Synergetics, according to Professor Haken, is the study of how component subsystems can interact to produce structure and coherent motion on a macroscopic scale. In fact it is a theory of selforganisation with applications not only in physics and chemistry but also in biology and sociology. In this book an introduction is given to the basic physical ideas and mathematical methods to be used. The text is imaginatively written and well illustrated by an amazing variety of examples drawn from such diverse fields as laser physics, fluid dynamics, mechanical engineering, chemical reactions, ecology and morphogenesis. . . . Professor Haken is to be congratulated in producing such a readable introduction to a subject still in its infancy.”

Physics Bulletin

Synergetics

Far from Equilibrium

Proceedings of the Conference Far from Equilibrium, Instabilities and Structures, Bordeaux, France, September 27—29, 1978

Editors: A. Pacault, C. Vidal

1979. 108 figures, 3 tables. X, 175 pages. Cloth DM 59,—; US \$32.50
ISBN 3-540-09304-4

With contributions by: P. Bergé, G. Bertrand, J. Chanu, P. De Kepper, M. Delmotte, M. Dubois, M. Dupeyrat, I. Epelboin, T. Erneux, C. Gabrielli, P. Glansdorff, H. Haken, P. Hanusse, M. Kaufman-Herschkowitz, B. Hess, W. Horsthemke, M. Keddum, E. Körös, R. Lefever, M. Marek, E. Nakache, G. Nicolis, A. Noyau, R. M. Noyes, M. Orbán, P. Ortoleva, A. Pacault, I. Procaccia, A. Rejou-Michel, H. Rooze, J. Ross, O. E. Rössler, J.-C. Roux, G. Schmitz, M. Suzuki, M. Velarde, C. Vidal, M. Villardi, R. Wiart.

Synergetics

A Workshop

Proceedings of the International Workshop on Synergetics at Schloß Elmau, Bavaria, May 2—7, 1977

Editor: H. Haken

1977. 136 figures. VIII, 274 pages. Cloth DM 58,—; US \$31.90
ISBN 3-540-08483-5

With contributions by: W. Buckley, R. K. Bullough, J. Cowan, G. Czajkowski, R. K. Dodd, P. R. Fenstermacher, H. Fröhlich, F. Fröhlich, J. P. Gollub, H. Haken, D. D. Joseph, A. Kastler, R. Kippenhahn, K. Kirchgässner, E. L. Koschmieder, H. Kuhn, Y. Kuramoto, H. J. Maresquelle, H. Meinhardt, A. Nitzan, A. Pacault, O. E. Rössler, D. H. Sattinger, H. L. Swinney, R. Thom, M. K. Welge.

Prices are subject to change without notice



Springer-Verlag
Berlin
Heidelberg
New York

Communications in
**Mathematical
Physics**

Chief Editor A. Jaffe, Cambridge, MA

Editorial Board H. Araki, Kyoto
E. Brézin, Saclay
R. Geroch, Chicago, IL
J. Ginibre, Orsay
J. Glimm, New York, NY
R. Haag, Hamburg
J. L. Lebowitz, New Brunswick, NJ
E. Lieb, Princeton, NJ
J. Moser, New York, NY
K. Osterwalder, Zürich
D. Ruelle, Bures-sur-Yvette
B. Simon, Princeton, NJ
Ya. G. Sinai, Moscow
R. Stora, Geneva

Advisory Board M. F. Atiyah, Oxford
G. 't Hooft, Utrecht
C. N. Yang, Stony Brook, NY

Responsible for advertisements

Springer-Verlag
Printers
Printed in Germany

L. Siegel, Kurfürstendamm 237, D-1000 Berlin 15
Telephone: (030) 882 1031, Telex 01-85411
Berlin Heidelberg New York
Brühlsche Universitätsdruckerei, Gießen
© by Springer-Verlag Berlin Heidelberg 1980
Das Heft enthält eine Beilage des Springer-Verlages
Berlin Heidelberg New York