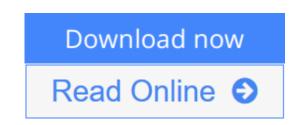# General Pattern Theory: A Mathematical Study of Regular Structures (Oxford Mathematical Monographs)

By Ulf Grenander

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The aim of pattern theory is to create mathematical knowledge representations of complex systems, analyze the mathematical properties of the resulting regular structures, and to apply them to practically occurring patterns in nature and the man-made world. Starting from an algebraic formulation of such representations they are studied in terms of their topological, dynamical and probabilistic aspects. Patterns are expressed through their typical behavior as well as through their variability around their typical form. Employing the representations (regular structures) algorithms are derived for the understanding, recognition, and restoration of observed patterns. The algorithms are investigated through computer experiments. The book is intended for statisticians and mathematicians with an interest in image analysis and pattern theory.

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Review
`this is an important book that should richly reward the persistent reader'
B.D. Ripley, University of Oxford, JRSS, Series A, Vol. 158, Part 3, 1995

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`an imprssive new synthesis ... It clearly represents the bible of pattern theory, and from that perspective one cannot but recommend it.'
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