



# Morphology of Condensed Matter

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Physics and Geometry of Spatially Complex Systems | The morphology of spatially structured materials is a rapidly growing field of research at the interface of statistical physics, applied mathematics and materials science. A wide spectrum of applications encompasses the flow through porous and composite materials as well as microemulsions and foams. Written as a set of lectures and tutorial reviews leading up to the forefront of research, this book will be both a compendium for the experienced researcher as well as a high level introductory text for postgraduate students and nonspecialist researchers working in related areas. | Complex Structured Condensed Matter.- Spatial Statistics and Micromechanics of Materials.- Characterising the Morphology of Disordered Materials.- Topological Characterization of Porous Media.- Nanotomography: Real-Space Volume Imaging with Scanning Probe Microscopy.- Bicontinuous Surfaces in Self-assembling Amphiphilic Systems.- Morphology of Langmuir Monolayer Phases.- Spatial Order in Liquid Crystals: Computer Simulations of Systems of Ellipsoids.- Two-Dimensional Fluid Foams at Equilibrium.- Spatial Statistics and Morphology.- Morphological Texture Analysis: An Introduction.- Vector- and Tensor-Valued Descriptors for Spatial Patterns.- Computational Topology for Point Data: Betti Numbers of  $\mathbb{R}$ -Shapes.- The Euler Number of Discretized Sets On the Choice of Adjacency in Homogeneous Lattices.- Shape...



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