



## Random Fluctuations and Pattern Growth: Experiments and Models

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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the NATO Advanced Study Institute, Cargèse, Corsica, France, 18-31 July, 1988 | - Contents -.- Course 1: Random Fluctuations and Transport.- Some Themes and Common Tools.- Structure, Elasticity and Thermal Properties of Silica Networks.- Anomalous Diffusion and Fractons in Disordered Structures.- Fractons in Real Fractals.- Anomalous Transport in Disordered Structures: Effect of Additional Disorder.- Information Exponents for Transport in Regular Lattices and Fractals.- Anomalous Transport in Random Linear Structures.- Course 2: Random Growth Patterns: Aggregation.-Morphological Transitions in Pattern Growth Phenomena.-Visualization and Characterization of Microparticle Growth Patterns.- Origin of Fractal Roughness in Synthetic and Natural Materials.- Electrodeposition.- Course 3: Random Fluctuations in Fluid Systems.- Flow Patterns in Porous Media.- Viscous Fingering in a Circular Geometry.- Construction of a Radial Hele-Shaw Cell.- Growth and Viscous Fingers on Percolating Porous Media.- Structure of Miscible and Immiscible Displacement Fronts in Porous Media.- Dynamics of Invasion Percolation.-Course 4: Random Fluctuations in Liquid Crystals.- Directional Solidification of Liquid Crystals.- Interfacial Instabilities of Condensed Phase Domains in Lipid Monolayers.- Pattern Formation of Molecules Adsorbing on Lipid Monolayers.- Course 5: Random Fluctuations in "Solid" Materials.- to Dense Branching Morphology.- The Material Factors Leading to Dense Branching.

## Reviews

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## -- Arianna Witting

An exceptional book as well as the font used was exciting to read. It is actually rally intriguing through reading time. You will not sense monotony at anytime of the time (that's what catalogues are for about when you ask me).

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