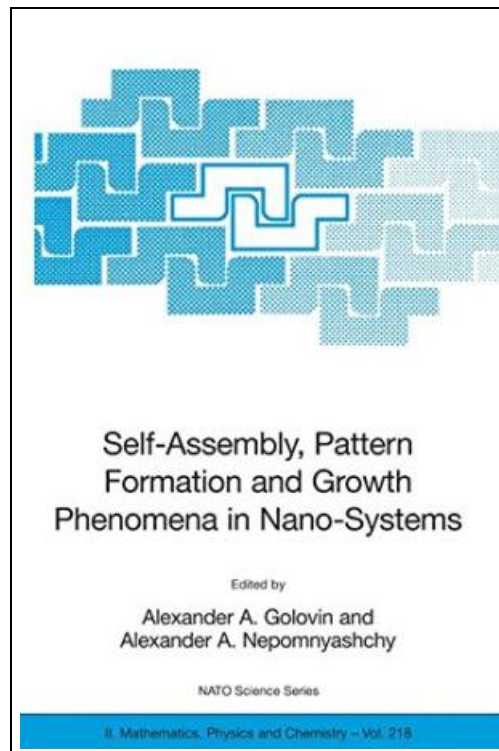


Self-Assembly, Pattern Formation and Growth Phenomena in Nano-Systems



Filesize: 3.14 MB

Reviews

It is just one of my personal favorite books. I was able to comprehend every little thing out of this published publication. It is extremely difficult to leave it before concluding, once you begin to read the book.
(Isaac Olson)

SELF-ASSEMBLY, PATTERN FORMATION AND GROWTH PHENOMENA IN NANO-SYSTEMS



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Springer. Hardcover. Book Condition: New. Hardcover. 327 pages. Dimensions: 9.5in. x 6.5in. x 0.9in. Nano-science and nano-technology are rapidly developing scientific and technological areas that deal with physical, chemical and biological processes that occur on nano-meter scale one millionth of a millimeter. Self-organization and pattern formation play crucial role on nano-scales and promise new, effective routes to control various nano-scales processes. This book contains lecture notes written by the lecturers of the NATO Advanced Study Institute Self-Assembly, Pattern Formation and Growth Phenomena in Nano-Systems that took place in St Etienne de Tinee, France, in the fall 2004. They give examples of self-organization phenomena on micro- and nano-scale as well as examples of the interplay between phenomena on nano- and macro-scales leading to complex behavior in various physical, chemical and biological systems. They discuss such fascinating nano-scale self-organization phenomena as self-assembly of quantum dots in thin solid films, pattern formation in liquid crystals caused by light, self-organization of micro-tubules and molecular motors, as well as basic physical and chemical phenomena that lead to self-assembly of the most important molecule on the basis of which most of living organisms are built DNA. A review of general features of all pattern forming systems is also given. The authors of these lecture notes are the leading experts in the field of self-organization, pattern formation and nonlinear dynamics in non-equilibrium, complex systems. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.



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