



Self Assembly: The Science of Things That Put Themselves Together

John A. Pelesko

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Hailed as one of the key areas of nanoscience likely to shape future scientific research, self-assembly offers the most promising route to true molecular nanotechnology. Focusing on this dynamic new field, *Self Assembly: The Science of Things That Put Themselves Together* explores nature's self-assembly of structures, the use of it to build engineered systems, and the latest advances in the field.

Reflecting the inherent progress of the science of self-assembly, this definitive book first delves into natural self-assembling systems. It addresses crystal growth, soap films, and micelles; examines how nature builds viruses, proteins, and ribosomes; and introduces the protein folding problem. The author then discusses how physicists, chemists, biologists, and engineers are applying nature's principles to self-assemble everything from DNA cubes to millimeter-scale electronic circuits. The final chapters cover theoretical and experimental approaches to understand the phenomenon of self-assembly and overcome its various challenges.

With practical activities, profiles of leading experts, chapter highlights, exercises, and references, *Self Assembly* provides the most current authoritative information on this exciting branch of nanoscience.

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