



Self-Assembly and Nanotechnology Systems: Design, Characterization, and Applications

Yoon S. Lee

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A fundamental resource for understanding and developing effective self-assembly and nanotechnology systems

Systematically integrating self-assembly, nanoassembly, and nanofabrication into one easy-to-use source, *Self-Assembly and Nanotechnology Systems* effectively helps students, professors, and researchers comprehend and develop applicable techniques for use in the field. Through case studies, countless examples, clear questions, and general applications, this book provides experiment-oriented techniques for designing, applying, and characterizing self-assembly and nanotechnology systems.

Self-Assembly and Nanotechnology Systems includes:

- Techniques for identifying assembly building units
- Practical assembly methods to focus on when developing nanomaterials, nanostructures, nanoproperties, nanofabricated systems, and nanomechanics
- Algorithmic diagrams in each chapter for a general overview
- Schematics designed to link assembly principles with actual systems
- Hands-on lab activities

This informative reference also analyzes the diverse origins and structures of assembly building units, segmental analysis, and selection of assembly principles, methods, characterization techniques, and predictive models. Complementing the author's previous conceptually based book on this topic, *Self-Assembly and Nanotechnology Systems* is a practical guide that grants practitioners not only the skills to properly analyze assembly building units but also how to work with applications to exercise and develop their knowledge of this rapidly advancing scientific field.

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