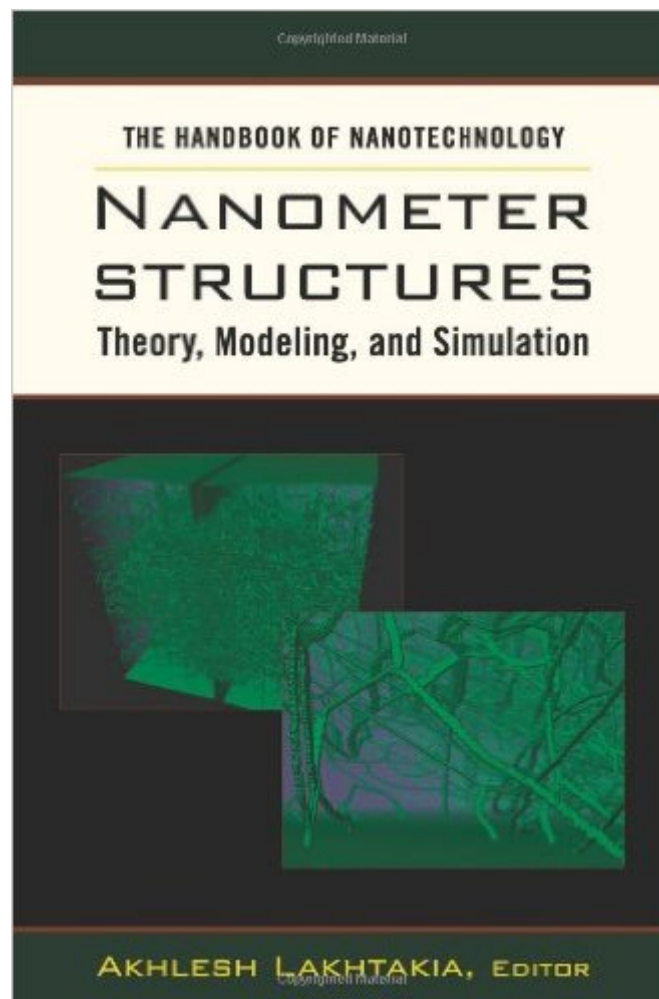


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"The Handbook Of Nanotechnology. Nanometer Structures: Theory, Modeling, And Simulation (SPIE Press Monograph Vol. PM129)"



Synopsis

This volume is a researcher's reference handbook to the many aspects of nanometer structures. Although intended as a source for the serious researcher, novices will find a great deal of interesting content. The theories covered include nanostructured thin films, photonic bandgap structures, quantum dots, carbon nanotubes, atomistic techniques, nanomechanics, nanofluidics, and quantum information processing. Modeling and simulation research on these topics have now reached a stage of maturity to merit inclusion as well. Contents - Preface - Foreword - Editorial - Sculptured Thin Films - Photonic Bandgap Structures - Quantum Dots: Phenomenology, Photonic and Electronic Properties, Modeling and Technology - Nanoelectromagnetics of Low-Dimensional Structures - Atomistic Simulation Methods - Nanomechanics - Nanoscale Fluid Mechanics - Introduction to Quantum Information Theory - Appendix A: Dirac notation - Appendix B: Trace and partial trace - Appendix C: Singular value and Schmidt decompositions - Appendix D: A more complete description - Acknowledgment - References

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