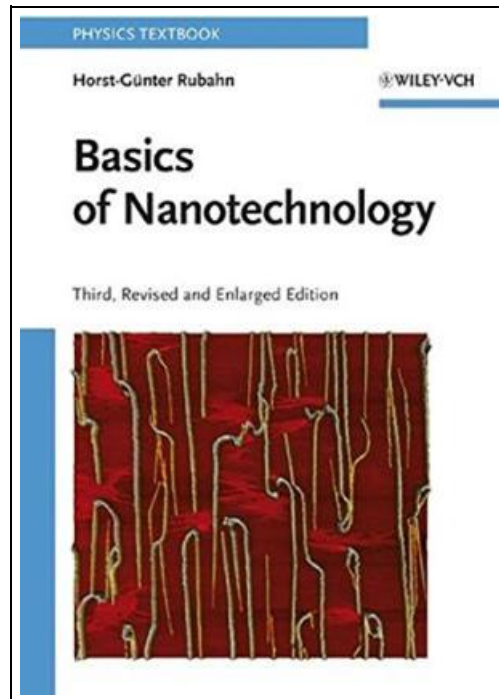


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Wiley VCH Verlag GmbH Sep 2008, 2008. Taschenbuch. Condition: Neu. Neuware - Klar strukturiert, leicht verständlich und mit viel experimenteller Erfahrung verfasst ist dieses zum dritten Mal aufgelegte Lehrbuch der Nanotechnologie. Aus Vorlesungsmanuskripten entwickelt, erläutert es zunächst die Physik der Nanostrukturen, Aufwuchsverfahren, Manipulation und Charakterisierung (Schwerpunkt: optische Verfahren), um dann zu neuesten Anwendungen von Nanoarchitekturen in der Optik, Elektronik und Biologie sowie bei der Entwicklung von Quantencomputern und molekularen Nanostrukturen überzuleiten. Für diese Auflage erweitert wurde die Diskussion von klassischen und Quanteneffekten und von magnetischen Strukturen. Mit seinen zahlreichen Übungsaufgaben eignet sich der Band hervorragend als Vorlesungsbegleiter für Studenten; Grundkenntnisse in der Festkörperphysik werden vorausgesetzt. Empfehlenswert auch zum Nachschlagen für die Praxis in Physik, Chemie und Materialwissenschaften. This extended and revised edition of the successful German version is a clearly structured and easily readable introduction, written by an experienced author with sound knowledge of experimental synthesis and analysis of nanostructures. Developed from courses on nanophysics and nanotechnology, this textbook covers the fundamental physics of nanostructures, methods of growth and manipulation, characterization methods with a focus on optical analyzing methods and nanooptics, a discussion of nano-architectures and the latest applications in optics, electronics, quantum computers, molecular nanostructures, biology and soft matter. This edition also includes an expanded discussion of quantum and classical effects as well as magnetic nanostructures. With its wide range of problems to test the reader's understanding, it is primarily aimed at graduate students with a basic knowledge of solid state physics, but can be equally used as a reference for professionals in physics, chemistry and materials science working on nanosystems, soft matter or biophysical matters. 226 pp. Englisch.



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