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Physical Properties of Nanorods (NanoScience and Technology)

By Roman Krahne, Liberato Manna, Giovanni Morello, Albert Figuerola, Chandramohan George, Sasanka Deka



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This book reviews the properties of rod- and wire-like nanoparticles with elongated shape. Covers optical, electrical, magnetic, mechanical and catalytic properties of nanowires consisting of semiconductors, noble and other metals, metal oxides and alloys.



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Editorial Review

From the Back Cover

Inorganic nanoparticles are among the most investigated objects nowadays, both in fundamental science and in various technical applications. In this book the physical properties of nanowires formed by nanoparticles with elongated shape, i.e. rod-like or wire-like, are described. The transition in the physical properties is analyzed for nanorods and nanowires consisting of spherical and rod-like nanoparticles. The physical properties of nanowires and elongated inorganic nanoparticles are reviewed too. The optical, electrical, magnetic, mechanical and catalytic properties of nanowires consisting of semiconductors, noble and various other metals, metal oxides properties and metal alloys are presented. The applications of nanorods and nanowires are discussed in the book.

Users Review

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