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**Fundamentals of synthesis of nano-sized particles and films**

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ABSTRACT

*This monograph is about the fundamentals and features of processes occurring during the synthesis of nano-sized particles and films; subjects of nano-technology, including general concepts of nano-technology, difference of nano-science from classical physics and quantum physics and certain features of nano-sized state of substances are described. Prospects of growth of various nano-technological methods are discussed.*

*This work is intended for teachers, graduates, undergraduates who are learning in the specialist program, masters and engineers, experts in theoretical and applied nano-technology.*

**Key words: nano-technology, nano-sized particles, synthesis, clusters, dispergation, computer modeling, fractal structures, thin films.**

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