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CHAPTER - III 3 Introduction to Synthesis of Nanomaterials

“Gheorghe Asachi” Technical University of Iasi, Romania

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*Nanomaterials An Introduction To
Synthesis Properties And Applications*

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KENDRA ZIMMERMAN

AN INTRODUCTION TO SYNTHESIS, PROPERTIES, AND

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nanomaterials, so me ge neral aspects o f gas-phase synthesis needs to be discussed. In conventional chemical vapour deposition (CVD) synthesis, gaseous products either are allowed Nanomaterials: An introduction to synthesis, properties and application 867 superparamagnetism is limited to small nanoparticle. Superparamagnetism leads, as the vector of magnetization is fluctuating thermally, to a zero coercivity. The explanation for this phenom en is found in the magnetic crystal anisotropy.

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CHAPTER - III 3 INTRODUCTION TO SYNTHESIS OF NANOMATERIALS

3.1 Methods to Synthesis of Nanomaterials In general, top-down and bottom-up are the two main approaches for nanomaterials synthesis. a. Top-down: size reduction from bulk materials. b. Bottom-up: material synthesis from atomic level. Top-down routes are included in the typical solid -state processing of the materials. "Gheorghe Asachi" Technical University of Iasi, Romania They can be applied in cell phones, CD-ROMs, magnetic recordings, cosmetics, drug delivery in medicine, imaging, water splitting, etc. Engineered nanomaterials are synthesized in special ways in order to take full advantage of their tiny size and their particular properties, which are generally not observed in their conventional bulk counterparts.

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Nanomaterials research takes a materials science -based approach to nanotechnology, leveraging advances in materials metrology and synthesis which have been developed in support of microfabrication research. Materials with structure at the nanoscale often have unique optical, electronic, or mechanical properties.

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