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Sommario/riassunto	The study of nanomaterials is an active area of 21st-century research in physics, chemistry and materials engineering as well as biomedical engineering. Nanomaterials which are defined as substances that are in the form of spherical dot, rod, thin plate or voids of any irregular shape, but smaller than 100nm, find wide application in materials science and technology due to their very distinctive properties as compared with their bulk counterpart. This special volume is focused on two fundamental issues related to the stability of nanomaterials. Thermal stability is a very important issue in co