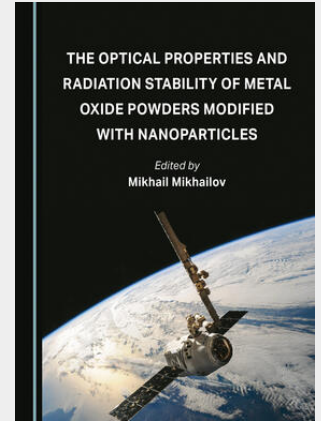


Mikhailov

The Optical Properties and Radiation Stability of Metal Oxide Powders Modified with Nanoparticles

The book is focused on the nanoparticle-based modification of micron-size ZnO, TiO₂, ZrO₂, Al₂O₃, CeO₂, and Y₂O₃ oxide powders and BaSO₄, BaTiZrO₃, and LaSrMnO₃ solid solutions applied for enamels, paints, construction materials, ceramics, and electric insulators. It presents the results of studies of the grain size distribution, phase composition, structure, optical properties, and physical processes that occur in micropowders modified with ZnO, TiO₂, ZrO₂, Al₂O₃, CeO₂, Y₂O₃, SiO₂, ZrO₂/Y₂O₃, and Al₂O₃/CeO₂ nanoparticles and subsequently irradiated with accelerated electrons and protons. The text will be helpful to researchers, engineers, structural developers, postgraduates, master's students, and undergraduate students who study the processes that occur during the synthesis and modification of inorganic powders with nanoparticles of various oxides differing in the size and type of cations, in their mass and charge, and in the size and surface area of nanoparticles per se.



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