



Defects and Surface-Induced Effects in Advanced Perovskites

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Defects And Surface-Induced Effects In Advanced Perovskites

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Summary : Free defects and surface-induced effects in advanced perovskites pdf download - complex oxide materials especially the ABO_3 -type perovskite materials have been attracting growing scientific interest due to their unique electro-optical properties leading to photorefractive effects that form the basis for such devices as holographic storage optical data processing and phase conjugation the optical and mechanical properties of non-metals are strongly affected by the defects and impurities that are unavoidable in any real material nanoscopically sized surface effects play an important role especially in multi-layered ABO_3 structures which are good candidates for high capacity memory cells the 51 papers presented here report the latest developments and new results and will greatly stimulate progress in high-tech technologies using perovskite materials

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