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Altri autori (Persone)	NasuK <1946-> (Keiichiro)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; Contents; Chapter 1 Theories for Photoinduced Structural Phase Transitions and their Dynamics Keiichiro Nasu; Chapter 2 Time-Resolved Spectroscopy of the Dynamics of Photoinduced Ionic-to-Neutral Phase Transition in Tetrathiafulvalen-P-Chloranil Crystals Katsumi Tanimura; Chapter 3 Study on the Cooperative Photoinduced Low-Spin to High-Spin State Conversion Processes Osamu Sakai and Tetsuo Ogawa; Chapter 4 Femtosecond Dynamics of the Photo-Induced Lattice Rearrangements in Quasi-One-Dimensional Halogen-Bridged Platinum Complexes Tohru Suemoto, Shinichi Tomimoto and Taira Matsuoka Chapter 5 Monte Carlo Simulations on Ising-Like Models for Photoinduced Phase Transitions Tohru Kawamoto and Shuji Abe Chapter 6 Photoinduced Phase Transitions in One-Dimensional Correlated Electron Systems Hiroshi Okamoto, Shin-ichiro Iwai and Hiroyuki Matsuzaki; Chapter 7 Probing Photoinduced Structural Phase Transitions by Fast or Ultra-Fast Time-Resolved X-Ray Diffraction

Herve Cailleau, Eric Collet, Marylise Buron-Le Cointe, Marie-Helene Lemee-Cailleau and; Index

**Sommario/riassunto**

A new class of insulating solids was recently discovered. When irradiated by a few visible photons, these solids give rise to a macroscopic excited domain that has new structural and electronic orders quite different from the starting ground state. This occurrence is called "photoinduced phase transition", and this multi-authored book reviews recent theoretical and experimental studies of this new phenomenon.

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**Soggetti**

Technology: general issues

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**Sommario/riassunto**

Analysis of microparticles is an important tool in medicine, biology and chemistry. In order to address future application areas, new systems will be produced by printing technology. In this work new microfluidic particle detection systems which employ planar optics are developed and analyzed. Because the characteristic of these new systems differs greatly from established particle detection systems the signals and statistics are analyzed in depth.