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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 AbeChapter 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. Whenirradiated by a few visible photons, these solids give rise to amacroscopic excited domain that has new structural and electronicorders quite different from the starting ground state. This occurrenceis called ""photoinduced phase transition"", and this multi-authoredbook reviews recent theoretical and experimental studies of this newphenomenon.