1. Record Nr. UNINA9910450228503321

Titolo	Photoinduced phase transitions [[electronic resource] /] / editor, K. Nasu
Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific, c2004
ISBN	1-281-87712-3 9786611877125 981-256-572-8
Descrizione fisica	1 online resource (354 p.)
Altri autori (Persone)	NasuK <1946-> (Keiichiro)
Disciplina	530.4/14 530.474
Soggetti	Exciton theory Phase transformations (Statistical physics) Charge transfer - Research Ionic crystals - Spectra High spin physics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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 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.