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Nota di contenuto	Reactivity in Molecular Crystals; List of Contributors; Contents; Preface; 1. THEORETICAL APPROACH; 1.1 Potential Energy Calculations of Crystals; 1.2 A Novel Molecular-Dynamics Method to Predict Molecular Crystal Structures; 2. PHYSICO-CHEMICAL APPROACH; 2.1 Development of a New X-Ray Diffractometer (IPD-WAS) for Rapid Measurement; 2.2 Reaction Process in Solid State Studied by High Resolution Electron Spectromicroscopy; 2.3 Analysis of Charge Transfer Complex Formation in the Solid State by Penning Ionization Electron Spectroscopy 2.4 Analysis of Reactive Species by Time Resolved Infrared Reflection Absorption Spectroscopy 2.5 Molecular Motion in Clathrate Crystals Analyzed by Solid-state NMR Method; 2.6 Asymmetric Structure Analysis for Reaction Centers of a Molecular Crystal and on a Crystal Surface by EXAFS Spectroscopy; 2.7 Excitation Energy Transfer Between Metal Complexes in Solids; 3. CRYSTALLINE-STATE REACTION; 3.1 Dynamic Structure Analysis of Crystalline-State Reaction; 3.2 Reversible Intercalation of Guest Molecules in Crystals of Cholic Acid 3.3 How can Crystalline Environment Provide Outstanding Chemistry for

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Sommario/riassunto

Do you need to design syntheses that are* highly selective* fast* enantioselective with quantitative enantiomeric yield? This book describes in detail how best to exploit the enormous synthetic potential of solid state reactions. Written by leading experts, it provides in-depth information on* the theoretical and physico-chemical approach to solid state reactions* solid-to-solid organic reactions* stereoselective solid state photoreactions* reactivity and crystal structureAn ideal companion to Dunitz and Burgi's 'Structure Correlation', this
