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Diarylcarbenes or Arylnitrenes4. Solid-to- Solid Organic Reactions; 4.1 Introduction; 4.2 Pinacol and Benzylic Acid Rearrangement; 4.3 Baeyer-Villiger Oxidation; 4.4 Reduction with NaBH4; 4.5 Grignard, Reformatsky and Luche Reactions; 4.6 Coupling Reactions; 4.7 Witting-Horner Reaction; 4.8 Aldol Condensation; 4.9 Dehydration, Rearrangement, Chlorination and Etherification of Secondary Alcohols; 4.10 Host-Guest Inclusion Complexation in the Solid State; 5. Streoselective Solid-State Photoreaction
5.1 Determining Factors of Molecular Arrangement and Reaction Course in the Crystalline-State Photoreaction of Unsymmetrically Substituted Diolefins5.2 Stereoselectivity in Reactions of Clathrate Crystals; 5.3 Solid-state Photochromism of Tetraphenyldihydro-1,3,5-Triazine and Related Heterocycles; 5.4 Solid-state Photoracemization and Photoisomerization of Alkyl Cobalt Complexes; 6. REACTIVITY AND CRYSTAL STRUCTURE; 6.1 Packing Effect in Solid-State Polymerization of Diethynylbenzene Derivatives by Radiation
6.2 High Selective Reaction Deduced by Tunneling Effect in the Crystalline Environment6.3 Formation of Bimolecular Films and Crystal Structure; 6.4 Reactivity and Reaction Pathway of the Sulfur Compounds; 6.5 Stereoselectivity and Molecular Recognition in Double Macrocyclic Inclusion Crystals; Index

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

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