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Topics In Stereochemistry



Synopsis

Topics in Stereochemistry, previously edited by "the father of stereochemistry" Ernest L. Eliel, is a longstanding, successful series covering the most important advances in the field. The much-anticipated Volume 25 includes chapters on the following topics: * Stereochemistry of Molecules in Inclusion Crystals * Torsional Motion of Stilbene-type Molecules in Crystals * Supramolecular Networks of Porphyrins * Homo- and Heterochirality in Crystals * Supramolecular Synthesis of 1D Chains and 2D Layers in Hydrogen Bond Networks of Ureas and 2-D Pyrimidinones * Chiral Auxiliaries Powerful for Both Enantioresolution and Determination of Absolutely Stereochemistry by X-Ray Crystallograph * Engineering Stereospecific Reactions in Crystals: Synthesis of Compounds with Adjacent Stereogenic Quaternary Centers by Photodecarbonylation of Crystalline Ketones * The CH/ Hydrogen Bond: An Important Molecular Force in Controlling the Crystal Conformation of Organic Compounds and Three-Dimensional Structure of Biopolymers * Stereoselective Thermal Solid-State Reactions * Crystal Structures and Functionalities of Platinum (II) Complexes Controlled by Various Intermolecular Interactions

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Customer Reviews

"A collection of excellent reviews on developed aspects of crystal stereochemistry." (Journal of the American Chemical Society, October 4, 2006)

Since it was first published in 1967, the highly regarded Topics in Stereochemistry series has

consistently reflected the state of the art in the field and provided readers with a coherent framework for the conceptual, theoretical, and practical aspects of modern stereochemistry. With the new series editor, Scott E. Denmark, at the helm, Volume 22 continues to offer important insights into the evolution of stereochemistry and its future directions. Written by internationally recognized leaders in their respective fields, this volume introduces readers to some of the most intensely studied topics in research laboratories today. Along with the fundamental principles of chirality, the authors describe exciting new applications of stereochemistry in synthetic organic, physical organic, and bioorganic chemistry. They cover cutting-edge research in areas such as asymmetric catalysis, reactions with catalytic antibodies, and stereoelectronic control of organic reactions. In addition, a feature chapter provides a critical analysis of the concepts of molecular chirality. Timely and authoritative, Topics in Stereochemistry, Volume 22, features over 120 illustrations and a cumulative index covering Volumes 1 through 22. It is an essential resource for organic chemists involved in synthesis as well as those in the physical and bioorganic areas of organic chemistry.

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