Record Nr. UNINA9910877550303321 Cis-trans isomerization in biochemistry / / edited by Christophe **Titolo** Dugave Pubbl/distr/stampa Weinheim,: Wiley-VCH, c2006 **ISBN** 1-280-72283-5 9786610722839 3-527-60933-4 3-527-60949-0 Descrizione fisica 1 online resource (372 p.) Altri autori (Persone) DugaveChristophe Disciplina 547.12252 547.7804452 Soggetti **Biomolecules** Stereochemistry Isomerism **Biochemistry** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto cis-trans Isomerization in Biochemistry; Contents; Preface; List of Contributors: 1 Nomenclature: 2 General Mechanisms of Cis-Trans Isomerization: A Rapid Survey; 2.1 Introduction; 2.2 Homolytic Cis-Trans Isomerization; 2.3 Heterolytic Cis-Trans Isomerization; 3 Mechanisms of Cis-Trans Isomerization around the Carbon-Carbon Double Bonds via the Triplet State; 3.1 A Concept of a Triplet-Excited Region; 3.2 Triplet-State Isomerization in Retinal; 3.2.1 Cis-Trans Isomerization Examined by Electronic Absorption and Raman Spectroscopies and by High-Performance Liquid Chromatography **Analysis** 3.2.2 Triplet-Excited Region in All-trans-Retinal Shown in Terms of Stretching Force Constants Determined by Raman Spectroscopy and Normal Coordinate Analysis [9]3.2.3 Dynamic Triplet-Excited Region in Retinal As Revealed by Deuteration Effects on the Quantum Yields of

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Sommario/riassunto

Collating the knowledge from over 20,000 publications in chemistry, biology and nanotechnology, this handbook is the first to comprehensively present the state of the art in one ready reference. A team of international authors connects the various disciplines involved, covering cis-trans isomerization of double bonds and pseudo-double bonds, as well as other cis-trans isomerizations. For biochemists, organic chemists, physicochemists, photochemists, polymer and medicinal chemists.