1. Record Nr. UNINA9910144280703321 Autore Curran Dennis P. Titolo Stereochemistry of radical reactions: concepts, guidelines, and synthetic applications / / Dennis P. Curran, Ned A. Porter, Bernd Giese; with a foreword by Ernest L. Eliel Weinheim, Germany:,: VCH,, 1996 Pubbl/distr/stampa ©1996 **ISBN** 1-281-84273-7 9786611842734 3-527-61523-7 3-527-61522-9 Descrizione fisica 1 online resource (294 p.) Disciplina 541.223 547.139 Soggetti Free radical reactions Radicals (Chemistry) Stereochemistry Electronic books. Lingua di pubblicazione Tedesco **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto Stereochemistry of Radical Reactions; Table of Contents; Chapter 1 Radical Reactions in Organic Synthesis; 1.1 Introduction; 1.2 Principles of Radical Reactions; 1.2.1 General Considerations; 1.2.2 Medium and Temperature Effects; 1.2.3 Stereochemical Features of Carbon-Centered Radicals; 1.2.4 Reactions of Radicals; 1.3 Methods to Conduct Radical Reactions; 1.3.1 Chain Methods; 1.3.1.1 Tributyltin and Tris (trimethylsilyl)silicon Hydride; 1.3.1.2 Allyltributylstannane; 1.3.1.3 Atom and Group Transfer Reactions; 1.3.1.4 Thiohydroxamates; 1.3.2 Non-Chain Methods 1.4 Comparisons of Stereoselective Radical Reactions with Ionic and Pericyclic AnalogsReferences; Chapter 2 Substrate Control: Radical

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Sommario/riassunto

As little as a decade ago, radicals were regarded as interesting reactive intermediates with little synthetic use. However, recent results show that radicals have an enormous potential for applications in stereoselective reactions - it's all a matter of knowing what method to use and how to apply it. Three world experts in the field have combined their expertise and present the concepts to understand and even to predict the course of stereoselective radical reactions. In addition, guidelines are established which will enable the readers to plan and carry out their own stereoselective sy

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