Record Nr. UNINA9910146086103321 Autore Denisov E. T (Evgenii Timofeevich) Titolo Handbook of free radical initiators [[electronic resource] /] / E.T. Denisov, T.G. Denisova, T.S. Pokidova Hoboken, N.J.,: Wiley-Interscience, c2003 Pubbl/distr/stampa **ISBN** 1-280-27268-6 9786610272686 0-470-30573-8 0-471-28183-2 0-471-72147-6 Descrizione fisica 1 online resource (903 p.) Altri autori (Persone) DenisovaTaissa G PokidovaT. S (Tamara S.) Disciplina 541.224 Soggetti Radicals (Chemistry) Free radicals (Chemistry) Free radicals (Chemistry) - Mechanism of action Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. CONTENTS; Preface; Symbols and Abbreviations; 1 Mechanisms of Nota di contenuto Decomposition of Initiators; 2 Cage Effect; 3 Methods of Study of Initiator Decomposition and Free Radical Generation: 4 Dialkyl Peroxides and Hydroperoxides; 5 Diacyl Peroxides, Peroxy Esters, Polyatomic, and Organometallic Peroxides; 6 Organic Polyoxides; 7 Azo Compounds; 8 Compounds with weak C-C, N-N, C-N, and N-O Bonds; 9 Parabolic Model of Bimolecular Homolytic Reaction; 10 Bimolecular and Trimolecular Reactions of Free Radical Generation by Dioxygen; 11 Bimolecular Reactions of Free Radical Generation by Ozone

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Free radical initiators-chemical molecules which easily decompose into free radicals-serve as reactive intermediates in synthetic methodologies such as organic and polymer synthesis as well as in technological processes, oligomerization, network formation, and kinetic research. The Handbook of Free Radical Initiators presents an up-to-date account of the physicochemical data on radical initiators and reactions of radical generation. Individual chapters include: Dialkyl Peroxides and HydroperoxidesDiacyl Peroxides, Peresters, and Organic PolyoxidesAzo-CompoundsBimolecular Re