1. Record Nr. UNINA9911019367303321

Autore	Denisov E. T (Evgenii Timofeevich)
Titolo	Handbook of free radical initiators / / E.T. Denisov, T.G. Denisova, T.S. Pokidova
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2003
ISBN	9786610272686 9781280272684 1280272686 9780470305737 0470305738 9780471281832 0471281832 9780471721475 0471721476
Descrizione fisica	1 online resource (903 p.)
Altri autori (Persone)	DenisovaTaissa G PokidovaT. S (Tamara S.)
Disciplina	541.2/24
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.
Nota di contenuto	CONTENTS; Preface; Symbols and Abbreviations; 1 Mechanisms of 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 12 Bimolecular Reactions of Hydroperoxides with Free Radical Generation13 Free Radical Generation by Olefins; 14 Initiation by Haloid

	Molecules and Nitrogen Dioxide; 15 Free Radical Generation by Reactions of Ions with Molecules; 16 Isomerization and Decomposition of Free Radicals; 17 Free Radical Abstraction Reactions; 18 Free Radical Reactions for Hydrogen Transfer and Substitution; 19 Free Radical Addition; 20 Recombination and Disproportionation of Free Radicals; Index
Sommario/riassunto	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