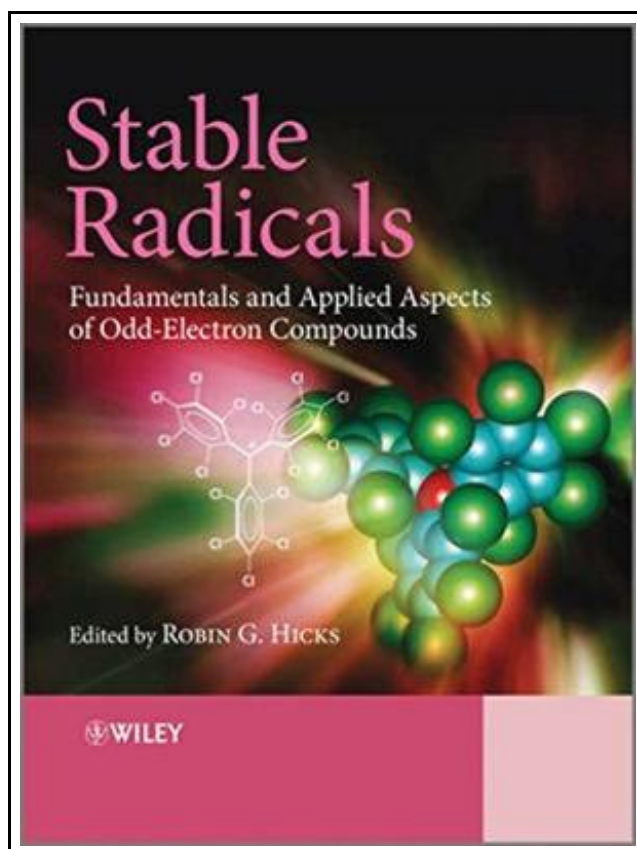


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John Wiley and Sons Ltd, United States, 2010. Hardback. Book Condition: New. 254 x 196 mm. Language: English . Brand New Book. Stable radicals - molecules with odd electrons which are sufficiently long lived to be studied or isolated using conventional techniques - have enjoyed a long history and are of current interest for a broad array of fundamental and applied reasons, for example to study and drive novel chemical reactions, in the development of rechargeable batteries or the study of free radical reactions in the body. In *Stable Radicals: Fundamentals and Applied Aspects of Odd-Electron Compounds* a team of international experts provide a broad-based overview of stable radicals, from the fundamental aspects of specific classes of stable neutral radicals to their wide range of applications including synthesis, materials science and chemical biology. Topics covered include: \* triphenylmethyl and related radicals \* polychlorinated triphenylmethyl radicals: towards multifunctional molecular materials \* phenalenyls, cyclopentadienyls, and other carbon-centered radicals \* the nitrogen oxides: persistent radicals and van der Waals complex dimers \* nitroxide radicals: properties, synthesis and applications \* the only stable organic sigma radicals: di-tert-alkyliminoxyls. \* delocalized radicals containing the hydrazyl [R<sub>2</sub>N-NR] unit \* metal-coordinated phenoxyl radicals \* stable radicals containing the thiazyl unit: synthesis, chemical, and materials properties \* stable radicals of the heavy p-block elements \* application of stable radicals as mediators in living-radical polymerization \* nitroxide-catalyzed alcohol oxidations in organic synthesis \* metal-nitroxide complexes: synthesis and magneto-structural correlations \* rechargeable batteries using robust but redox-active organic radicals \* spin labeling: a modern perspective \* functional in vivo EPR spectroscopy and imaging using nitroxides and trityl radicals \* biologically relevant chemistry of nitroxides *Stable Free Radicals: Fundamentals and Applied Aspects of Odd-Electron Compounds* is an essential guide to this fascinating area of chemistry for researchers and students working in organic...



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