Book Chapters

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2. Overview of polymerization technology (K.Y. Choi), in ***Handbook of Polymer Science and Technology***, Vol.1, 67-102, Marcel-Dekker, New York, 1988.
3. Modeling of polymerization processes (K.Y. Choi), in ***Computer Aided Catalyst Design,*** C.J. Pereira and E.R. Becker (eds.), 335-387, Marcel-Dekker, New York, 1993.
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12. Technical processes for industrial production (K.Y. Choi, B.G. Kwag, S.Y. Park, and C.H. Cheong), Chapter 13, 369-425, in **Handbook of Vinyl Polymers: Radical Polymerization, Process, and Technology**, Second ed., (Ed. M.K. Mishra, Y. Yagci), Taylor & Francis (2009).

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Subjects: Vinyl Polymers; Polymerization.

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Reviewer: Tom Volkening, Engineering Librarian, Michigan State University Engineering Library, volkenin@maillib3.lib.msu.edu

Table of Contents:
Part I: The Fundamentals

Free radical polymerization is an important industrial process. Both editors have written extensively in the field of polymer science, Dr. Mishra as an industrial research scientist and Dr. Yagci as an academic researcher.

The Handbook of Radical Vinyl Polymerization provides information on the physical and organic chemistry of radical vinyl polymerization. The first three chapters are an introduction to the basic principles of radical vinyl polymerization. Chapters four through ten discuss the radical initiators and mechanisms including recent advances in the field such as living polymerization. Chapter eleven describes a number of the major industrial processes that utilize radical vinyl polymerization. The final chapter provides data and structures for the industrial researcher. The book contains nearly1,500 references and numerous tables and drawings.

The Handbook of Radical Vinyl Polymerization should be useful for organic chemists and researchers working in the area of polymer science. It is a good combination of the practical information used by industrial researchers and the more theoretical knowledge needed by members of the academic community. It can serve as reference work for researchers or as an overview of radical vinyl polymerization. It is recommended for corporate libraries serving polymer researchers and academic libraries serving graduate students and faculty members with an interest in polymer science.