Photoinitiators for Polymer Synthesis: Scope, Reactivity, and Efficiency
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DESCRIPTION

Photoinitiating systems for polymerization reactions are largely encountered in a variety of traditional and high-tech sectors, such as radiation curing, (laser) imaging, (micro)electronics, optics, and medicine.

This book extensively covers radical and nonradical photoinitiating systems and is divided into four parts:

* Basic principles in photopolymerization reactions
* Radical photoinitiating systems
* Nonradical photoinitiating systems
* Reactivity of the photoinitiating system

The four parts present the basic concepts of photopolymerization reactions, review all of the available photoinitiating systems and deliver a thorough description of the encountered mechanisms. A large amount of experimental and theoretical data has been collected herein.

This book allows the reader to gain a clear understanding by providing a general discussion of the photochemistry and chemistry involved.
The most recent and exciting developments, as well as the promising prospects for new applications, are outlined.

ABOUT THE AUTHOR

Jean-Pierre Fouassier was a Professor of Physical Chemistry at the University of Haute Alsace, Mulhouse until October 2011. He was Head of a University/CNRS Laboratory, a Member of the Organizing Committees of many International Conferences, a Director of the Ecole Nationale Supérieure de Chimie de Mulhouse and a Member of the French National University Council. His research interests focused both on the excited-state processes in photoinitiators and photosensitizers and their application to photopolymerization reactions in various areas. He has published a total of around 600 research articles, book chapters, review papers, technical papers, proceedings, and patents, as well as authoring one book, one technical report and editing 6 books (14 volumes).

Jacques Lalevée is a Professor of Physical Chemistry at the University of Haute Alsace, Mulhouse. His research interests are focused on free-radical chemistry and the design of efficient systems for photopolymerization processes. He has published a total of around 160 research articles, technical papers, proceedings, patents, review papers, and book chapters. He is also a Member of the Institut Universitaire de France (Paris).

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