

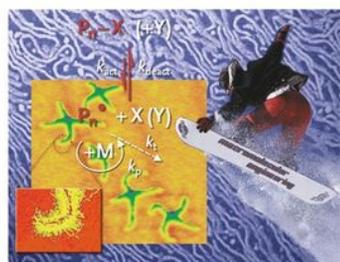
Edited by Krzysztof Matyjaszewski,
Yves Gnanou, Ludwik Leibler

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**Macromolecular
Engineering**

Precise Synthesis, Materials Properties, Applications

Volume 1: Synthetic Techniques



Macromolecular Engineering: Precise Synthesis, Materials Properties, Applications, 4 Volume Set

Krzysztof Matyjaszewski (Editor), Yves Gnanou (Editor), Ludwik Leibler (Editor)

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DESCRIPTION

The book provides a state of the art description of the synthetic tools to precisely control various aspects of macromolecular structure including chain composition, microstructure, functionality and topology as well as modern characterization techniques at molecular and macroscopic level for various properties of well-defined (co)polymers in solution, bulk and at surfaces. The book addresses also the correlation of molecular structure with macroscopic properties additionally affected by processing. Finally, some emerging applications for the (co)polymers are highlighted.

ABOUT THE AUTHOR

Krzysztof Matyjaszewski is currently J.C. Warner University Professor of Natural Sciences at Carnegie Mellon University in Pittsburgh, USA. He is also Director of Center for Macromolecular Engineering at CMU and adjunct professor at University of Pittsburgh and at Polish Academy of Sciences. He is the editor of "Progress in Polymer Science" and "Central European Journal of Chemistry". His research group is involved in several areas of macromolecular engineering, especially in synthesis of various well-defined copolymers using atom transfer radical polymerization and other controlled/living polymerization techniques. He is author of over 400 peer-reviewed publications, over 50 book chapters, 8 books and 26 US patents.

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