



Supercritical Carbon Dioxide: In Polymer Reaction Engineering (Green Chemistry (Wiley))

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Recently, supercritical fluids have emerged as more sustainable alternatives for the organic solvents often used in polymer processes. This is the first book emphasizing the potential of supercritical carbon dioxide for polymer processes from an engineering point of view. It develops a state-of-the-art overview on polymer fundamentals, polymerization reactions and polymer processing in supercritical carbon dioxide. The book covers topics in a multidisciplinary approach starting from polymer chemistry and thermodynamics, going through monitoring, polymerization processes and ending with polymer shaping and post-processing.

The authors are internationally recognized experts from different fields in polymer reaction engineering in supercritical fluids. The book was initiated by the Working Party on Polymer Reaction Engineering of the European Federation of Chemical Engineering and further renowned international experts.

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Editorial Review

Review

"This book deserves attention, even by the nonspecialist who is considering scCO₂ as a potential solvent for a polymer chemistry research programme."

Angewandte Chemie I.E.

"In summary, the two editors have done an excellent job of putting together a very useful book that provides an excellent introduction, and a thorough update for those who are already working in the field."

Advanced Materials

From the Back Cover

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About the Author

Maartje Kemmere (1971) received her MSc in chemical engineering at Eindhoven University of Technology in 1995, followed by a PhD in emulsion polymerisation process development in 1999.

Subsequently, she joined the Process Development Group of Eindhoven University of Technology as an assistant professor. Current research areas are polymer reaction engineering with emphasis on supercritical fluids and ultrasound technology, and polymer materials for biomedical purposes.

In 2003 she was a visiting scientist at the Flemish Institute for Technological Research.

Thierry Meyer, born 1961 in Geneva, obtained his MSc in 1985 at the Swiss Federal Institute of Technology in Lausanne (EPFL), followed in 1989 by a PhD in chemical engineering.

He joined Ciba-Geigy in 1994 as development chemist in the pigment division, then as head of development a.i. to become production manager in 1998. In 1999 he switched to the Institute of Chemical Sciences and Engineering at EPFL to head the polymer reaction engineering unit.

Since 2002, he also functions as the chairman of the working party on polymer reaction engineering of the European Federation of Chemical Engineering.

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The actual book Supercritical Carbon Dioxide: In Polymer Reaction Engineering (Green Chemistry (Wiley)) has a lot details on it. So when you check out this book you can get a lot of help. The book was authored by the very famous author. Mcdougal makes some research previous to write this book. This book very easy to read you can get the point easily after scanning this book.

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