
Handbook of Polymer Reaction Engineering

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DESCRIPTION

This first book dedicated to all aspects of the field presents our current knowledge in its entirety, covering the necessary disciplines and processes involved - from the monomer to the final product. With an international editor and author team from academia and such leading chemical companies as Bayer, BASF and DuPont, the text adopts a multidisciplinary approach and a practical point of view. Starting with polymer chemistry and thermodynamics, the book goes on to deal with measurement, control, and characterization, before tackling process development, safety issues, scale-up, and modeling. It concludes with emerging processes.

With its unparalleled depth of coverage, this will be the definitive reference on this topic for years to come.

The impulse for this book comes from the Working Party on Polymer Reaction Engineering of the European Federation of Chemical Engineering, and internationally recognized experts from different fields in industry and academia have come together to put their knowledge in writing.

There is nothing like colleagues' comments to recommend a book:

'This handbook is an excellent idea since there is a gap in the literature especially concerning the significant research and development that has recently been carried out in this field.'

'Authors and editors are active academic and industrial polymer reaction engineers - among the best in the field.'

'In my opinion there is a definite need because there is no similar publication available in English covering engineering aspects.'

ABOUT THE AUTHOR

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

He joined Ciba-Geigy in 1994 as a development chemist in the pigment division, then was head of development and became production manager in 1998.

In 1999 he switched to the Institute of Chemical Sciences and Engineering at EPFL directing the polymer reaction engineering unit.

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

Jos Keurentjes (1963) did his MSc at the Wageningen Agricultural University, followed by a PhD in food engineering at the same university (1991).

Subsequently, he joined Akzo Nobel Central Research as a researcher in the department of chemical and physical technology, followed by a position heading separation technology.

In 1997 he switched to the Eindhoven University of Technology holding the chair on process development.

Starting 2002, he also serves as scientific secretary of the working party on polymer reaction engineering of the European Federation of Chemical Engineering.

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