DESCRIPTION

Filling a gap in the market, this textbook provides a concise, yet thorough introduction to polymer science for advanced engineering students and practitioners, focusing on the chemical, physical and materials science aspects that are most relevant for engineering applications.

After covering polymer synthesis and properties, the major section of the book is devoted to polymeric materials, such as thermoplastics and polymer composites, polymer processing such as injection molding and extrusion, and methods for large-scale polymer characterization. The text concludes with an overview of engineering plastics. The emphasis throughout is on application-relevant topics, and the author focuses on real-life, industry-relevant polymeric materials.

ABOUT THE AUTHOR

Stoyko Fakirov is currently visiting professor in the Centre for Advanced Composite Materials at the University of Auckland, New Zealand. He studied chemistry at the University of Sofia, Bulgaria, and received his PhD from the Lomonossov State University in Moscow. Stoyko Fakirov is member of the editorial board of 12 international journals on polymers and advanced materials. He has published more than 300 peer-reviewed papers, edited or co-edited and always contributed to 15 books on polymer science and holds nine US patents.
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