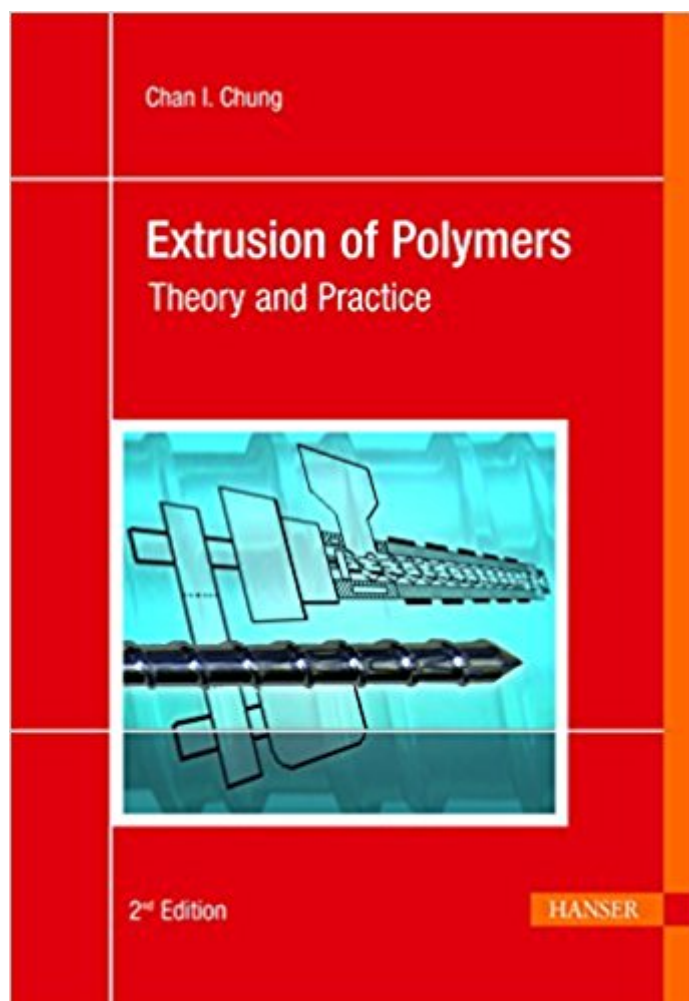




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Extrusion Of Polymers 2E: Theory And Practice



Synopsis

Single-screw extrusion technology is presented together with the relevant polymer fundamentals, with an emphasis on screw design. The book provides an in-depth tutorial for the conceptual understanding and an analytical part with mathematical models. Practical applications of the mathematical models are illustrated by examples. A brief description of twin-screw extrusion technology is also presented. Contents: Physical Description of Single-Screw Extrusion. Fundamentals of Polymers. Theories of Single- Screw Extrusion. Screw Design, High-Performance Screws, and Scale-Up. Gear Pumps, Static Mixer, and Dynamic Mixer. Physical Description of Twin-Screw Extruders.

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Customer Reviews

This is a very unique and interesting book on screw extrusion of polymers, and contains many suggestive observations not only on melting but also on solid conveying, metering etc. of extruders. Chung model, different from other models, has been developed based on experimental results by a unique simulative apparatus called "screw simulator" and theoretical studies of them. There were discussions about the adequacy of applying the knowledge from the screw simulator to real single screw extruders. Chung persevered in his research, and published his achievements in book form.

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