



# Solid State Polymerization

*Constantine D. Papaspyrides, Stamatina N. Vouyiouka*

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The most current guide to solid state polymerization

Solid State Polymerization (SSP) is an indispensable tool in the design, manufacture, and study of polymers, plastics, and fibers. SSP presents significant advantages over other polymerization techniques due to low operating temperatures, inexpensive equipment, and simple and environmentally sound procedures. Combining fundamentals of polymer science, chemistry, physical chemistry, and engineering, SSP also offers many research applications for a wide range of students and investigators.

Gathering and filtering the latest literature on SSP, *Solid State Polymerization* offers a unique, one-stop resource on this important process. With chapters contributed by leaders in the field, this text summarizes SSP, and provides essential coverage that includes:

- An introduction to SSP, with chemical and physical steps, apparatus, advantages, and parameters
- SSP physical chemistry and mechanisms
- Kinetic aspects of polyesters and polyamides SSP
- Catalysis in SSP processes
- Application of SSP under high pressure conditions in the laboratory
- Engineering aspects regarding process modeling and industrial application
- Recent developments and future possibilities

*Solid State Polymerization* provides the most up-to-date coverage of this constantly developing field to academic and industry professionals, as well as graduate and postgraduate-level students in chemical engineering, materials science and engineering, polymer chemistry, polymer processing and polymer engineering.

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