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A Population Balance Model for Disperse Systems: Particle Size Distribution in Suspension Polymerization

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摘要 On the basis of population balance a mathematical model is developed to describe the formation of polymer particle in styrene suspension polymerization. The characteristics of coalescence and breakage of droplets and the gel effect are analyzed in particular. Parameters of the models are estimated by experimental. on reaction conversion and particle size distribution. The results show that the model is suitable for predicting polymerization processes.

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Key words [population balance model](#); [styrene](#); [suspension polymerization](#); [particle size distribution](#)

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