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A Generalized Rate Model for Free Radical Copolymerization and Its Simulation

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关键词 <u>copolymerization rate</u> <u>model</u> <u>simulation</u>

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Abstract A generalized rate model for free radical copolymerization was proposed. It can be applied not only to the system with the participation of charge-transfer complex (CTC), but also to the system without the participation of CTC. The effects of equilibrium constant, total monomerconcentration, homo-propagation parameters and reactivity ratios on freemonomer, CTC, overall rates, and the contribution of CTC were considered in the simulation. North equation of copolymerization rate as a specialcase can be derived from the generalized model.

Key words copolymerization rate; model; simulation

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