

عنوان مقاله:

Control of Polycondensation Reactors Based on TS Fuzzy Trajectory Definition

محل انتشار:

دهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1391)

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خلاصه مقاله:

Process conditions during polymerization are always wellcontrolled to achieve the desired final properties. Most of the process parameters that are measurable and estimable during a process, must be controlled [1, 2]. Control on a batch polymerization reactor typically involves pre-mixing conditions of the primary reactants and the process termination. Temperature control is one of the most common control strategies for polymerization, because the reaction temperature of polymerization effect significantly on the properties of the final product. Fuzzy controllers can be classified two families of controllers based on fuzzy model and fuzzy rules. In recent decades, many applications of fuzzy theory in chemical and polymer process control have been reported [3]. An adaptive Takagi-Sugeno fuzzy modeling for process control was designed by Lima et al [4] control the polymerization process. They have shown that this controller has better performance than conventional PID controllers. In this study, classical and Fuzzy logic in control of polycondensation reactors based on aromatic polyesters is conducted

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