

عنوان مقاله:

APPLICATION OF FRACTIONAL ORDER PID TO TEMPERATURE CONTROL OF BATCH POLYMERIZATION REACTOR

محل انتشار:

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

تعداد صفحات اصل مقاله: 1

نویسندگان:

(Majid Ghiass - Iran Polymer and Petrochemical Institute (IPPI)

.Mostafa M Nasseri - Iran University of Science and Technology, IUST, Tehran, Iran

.Mansoor Shirvani - Iran University of Science and Technology, IUST, Tehran, Iran

.Hamid Abdollahi - National Iranian South Oil Company (NISOC)

خلاصه مقاله:

Control of batch polymerization reactor has been a complex and interesting issue in the polymer production plants. The nonlinear nature of the polymerization kinetics and the effects of operational variables such as temperature on the quality of the final polymer application, make the control of the polymerization a critical issue which requires a precise procedure. The fractional order controllers have been recently applied for the optimum control of the nonlinear systems such as batch polymerization reactor. In this work we analysis the temperature control of a batch methyl methacrylate polymerization reactor and tracking performance along the optimal temperature trajectory was investigated

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/579859>

