عنوان مقاله:

a Simplified Model of Distributed Parameter Systems

محل انتشار:

ماهنامه بین المللی مهندسی, دوره 6, شماره 2 (سال: 1372)

تعداد صفحات اصل مقاله: 14

نویسندگان:

T. Shimizu - *Chemical & Petroleum Engineering, Niigata University*

Mansour Shirvani - *Chem. Eng., Iran Univ. Sci. Tech*.

خلاصه مقاله:

A generalized simplified model for describing the dynamic behavior of distributed parameter systems is proposed. The various specific characteristics of gain and phase angle of distributed parameter systems are investigated from frequency response formulation and complex plane representation of the proposed simplified model. The complex plane investigation renders some important inequality constraints regarding the transcendental characteristics of phase angle. In this way it become possible to classify the various possible phase angle characteristics of these systems. The proposed generalized simplified model is simulated to some actual process systems for further confirmation of the simplification capability of the model and the results of simulation are discussed based on the conclusions of dynamic behavior investigations.

کلمات کلیدی:

Distributed Parameter Systems, Frequency Response, Step Response, Simulation

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1414912