

## عنوان مقاله:

A Systematic Single-Range Controller Synthesis Procedure for Nonlinear Systems

## محل انتشار:

چهاردهمین کنفرانس سالانه مهندسی مکانیک (سال: 1385)

تعداد صفحات اصل مقاله: 8

## نویسندگان:

.Mousavai Firdeh - *Technical Expert, Binary Micro Instrument Co*

Nassirharand - *Assistant Professor, Mechanical Engineering Group, Islamic Azad University – Damavand Branch*

Karimi - *Assistant Professor, Aerospace Engineering Group, Khage Nassir-Al-Deen Toosi University of Technology*

## خلاصه مقاله:

A new systematic single-range controller synthesis procedure for use with highly nonlinear, multivariable, and time-varying liquid propellant engines is developed. The developed procedure is based on one describing function model of the nonlinear plant coupled with two different linear algebraic controller design procedures; one of the algebraic procedures is to achieve decoupling, and the second one is to achieve command following. The developed procedure is demonstrated by solving an example problem comparing the results using a  $H^\infty$  controller design procedure

## کلمات کلیدی:

Describing Functions - Factorization Theory - Design Methodologies - Fourier Integrals -  $H^\infty$  control

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/27944>

