عنوان مقاله:

System Identification of LTI Singular Systems via a Quasi-Static Method

نویسندگان:

Masoud Mirmomeni - *Tehran University*

Masoud Shafiee - *Amirkabir University of Technology*

Caro Lucas - *Tehran University*

خلاصه مقاله:

systein identification is one the most important parts in science and technology. This branch of science specially has an ilnporta~it role in control engineering; because only wit11 a proper identification method can one inodel a phenomenon to control its performance. 011 tlie other hand, singular systems have bee11 tlie subject of interest over the last two decades due to their many practical applications. But it has to be said that system identification of such system is still a . challengi17g area because o f tlie difficulty of identification of such systems tbr their co~nplex structures. In addition, it seems that by developiiig a useful rnetl~od for singular systein identifica tion, one car] use the usehl property of such systerns in describing the natural complex phenomena. This paper introduces a new quasi-static identificatior~ method for. LTI singular systenis as a powerfil tool to identi& this kind of systems. Results clearly demonstrate the advantages of this new method in system identification ofL77 singular systems.

کلمات کلیدی:

LTI singular systems, improper systems, system identification, strictly proper systems, quasi-static method

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/25376