

عنوان مقاله:

Tune parameters of PID for optimization of losses in levitation system

محل انتشار:

سومین کنفرانس بین المللی پیشرفتهای اخیر در مهندسی راه آهن (سال: 1392)

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خلاصه مقاله:

In this paper a new method has been proposed for determining PID controller parameters in order to decrease losses in levitation system of magnetic trains. We assume that this system is a hybrid system and it consists of electric and permanent magnet. For optimization of losses first AC losses of magnetic levitation system has been calculated. Linear model of levitation system as well as modeling the system has been offered. In the end parameters related to PID controller are tuned with Ziegler-Nichols method and optimizing methods using genetic algorithm and their results .will be compared

کلمات کلیدی:

magnetic levitation system- optimizing losses-Genetic algorithm

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