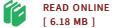




Local model predictive controller

By Ayala, Claudio

Condition: New. Publisher/Verlag: Dictus Publishing | in a solar desalination plant collector field | This paper proposes a new predictive control strategy for a distributed collector field of a solar desalination plant. The main purpose of the controller is to manipulate the water flow rate to maintain constant the outlet-inlet temperature gradient in the collectors in spite of disturbances. The controller is based on a filtered Smith predictor generalized predictive control algorithm and a simple procedure to update the linear model used in the predictor in such a way that the nonlinear optimizations is avoided. The controller copes with the process nonlinearities, constraints, deadtime and plant-model mismatch obtaining the desirable performance both, in the reference tracking and rejecting strong irradiance disturbances. Real experimental tests of this technique in the AQUASOL desalination plant solar field are presented to show the advantages the proposed controller. | Format: Paperback | Language/Sprache: spa | 52 pp.



Reviews

This ebook is definitely not easy to get going on looking at but quite fun to learn. We have read and so i am sure that i will gonna study once more yet again later on. I am very happy to inform you that here is the finest publication i actually have read inside my personal daily life and might be he best publication for possibly.

-- Sister Langosh

A must buy book if you need to adding benefit. It is really simplified but shocks in the 50 percent of the pdf. I found out this pdf from my i and dad recommended this publication to learn. -- Zetta Armstrong III