



Identification and Control of Sheet and Film Processes

By Featherstone, Andrew P. / VanAntwerp, Jeremy G.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Sheet and film processes include coating, papermaking, metal rolling, and polymer film extrusion. Products produced by these processes include paper, bumper stickers, plastic bags, windshield safety glass, and sheet metal. The total capitalization of industries that rely on these processes is well over \$ 500 billion worldwide. These processes are notorious for being difficult to control. The goal of this book is to present the theoretical background and practical techniques for the identification and control of sheet and film processes. It is explained why many existing industrial control systems perform poorly for sheet and film processes. Identification and control algorithms are described and illustrated which provide consistent and reliable product quality. These algorithms include an experimental design technique that ensures that informative data are collected during input-output experimentation, model identification techniques that produce a process model and an estimate of its accuracy, and control techniques that take into account actuator constraints as well as robustness to model uncertainties. The algorithms covered in this book are truly the state of the art. Variations on some of the algorithms have been implemented on industrial sheet and film processes. Other algorithms are in various stages of implementation. All...

DOWNLOAD



READ ONLINE

[5.12 MB]

Reviews

I actually began looking at this pdf. It is actually rally interesting throgh reading time period. You will not really feel monotony at at any time of your respective time (that's what catalogues are for concerning if you ask me).

-- **Brayan Mohr Sr.**

A superior quality publication along with the font used was fascinating to learn. I have read through and i also am certain that i am going to go through yet again again in the future. Your life period will likely be enhance the instant you total reading this publication.

-- **Donnie Rice**