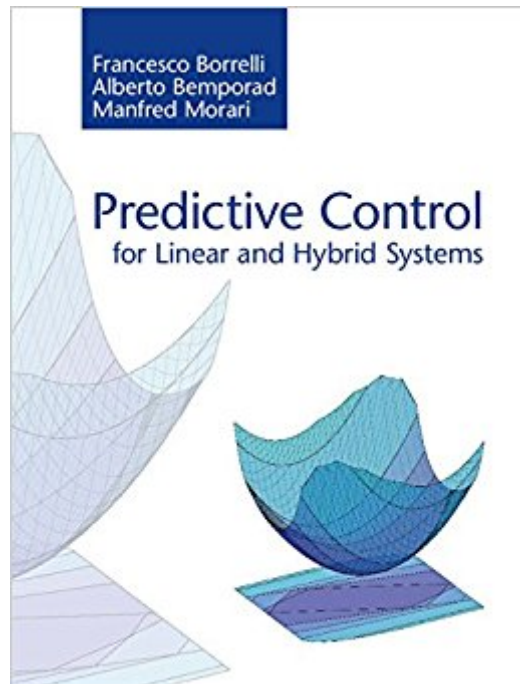




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Predictive Control For Linear And Hybrid Systems



Synopsis

Model Predictive Control (MPC), the dominant advanced control approach in industry over the past twenty-five years, is presented comprehensively in this unique book. With a simple, unified approach, and with attention to real-time implementation, it covers predictive control theory including the stability, feasibility, and robustness of MPC controllers. The theory of explicit MPC, where the nonlinear optimal feedback controller can be calculated efficiently, is presented in the context of linear systems with linear constraints, switched linear systems, and, more generally, linear hybrid systems. Drawing upon years of practical experience and using numerous examples and illustrative applications, the authors discuss the techniques required to design predictive control laws, including algorithms for polyhedral manipulations, mathematical and multiparametric programming and how to validate the theoretical properties and to implement predictive control policies. The most important algorithms feature in an accompanying free online MATLAB toolbox, which allows easy access to sample solutions. Predictive Control for Linear and Hybrid Systems is an ideal reference for graduate, postgraduate and advanced control practitioners interested in theory and/or implementation aspects of predictive control.

Book Information

File Size: 26291 KB

Print Length: 458 pages

Simultaneous Device Usage: Up to 4 simultaneous devices, per publisher limits

Publisher: Cambridge University Press (June 30, 2017)

Publication Date: June 20, 2017

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B0718ZXRKP

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #368,319 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #7

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Customer Reviews

Just purchased a paper version of the book, and this is the best book out there that covers complete aspects of model predictive control, and present concise and precise notations/equations. Plenty of examples and free/available matlab script to reproduce the results, this is extremely helpful for both beginners and researchers to hands on controller design for engineering applications. Highly recommended for anyone interested in learning and applying model predictive control to real world engineering problems.

I have the kindle version. The material is good but the formula has really low resolutions, which looks really blurry.

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