



Predictive Control of Power Converters and Electrical Drives (Wiley - IEEE)

Jose Rodriguez, Patricio Cortes

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Describes the general principles and current research into Model Predictive Control (MPC); the most up-to-date control method for power converters and drives

The book starts with an introduction to the subject before the first chapter on classical control methods for power converters and drives. This covers classical converter control methods and classical electrical drives control methods. The next chapter on Model predictive control first looks at predictive control methods for power converters and drives and presents the basic principles of MPC. It then looks at MPC for power electronics and drives. The third chapter is on predictive control applied to power converters. It discusses: control of a three-phase inverter; control of a neutral point clamped inverter; control of an active front end rectifier, and; control of a matrix converter. In the middle of the book there is Chapter four - Predictive control applied to motor drives. This section analyses predictive torque control of industrial machines and predictive control of permanent magnet synchronous motors. Design and implementation issues of model predictive control is the subject of the final chapter. The following topics are described in detail: cost function selection; weighting factors design; delay compensation; effect of model errors, and prediction of future references. While there are hundreds of books teaching control of electrical energy using pulse width modulation, this will be the very first book published in this new topic.

- Unique in presenting a completely new theoretic solution to control electric power in a simple way
- Discusses the application of predictive control in motor drives, with several examples and case studies
- Matlab is included on a complementary website so the reader can run their own simulations

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