Predictive Technology Model For Robust Nanoelectronic Design Author Yu Cao Jul 2011

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Predictive Technology Model For Robust

As an evolution of previous Berkeley Predictive Technology Model (BPTM), PTM will provide the following novel features for robust design exploration toward the 10nm regime: Predictions of various transistor structures, such as bulk, FinFET (double-gate) and ultra-thin-body SOI, for sub-45nm... ...

Predictive Technology Model (PTM)

Predictive Technology Model for Robust Nanoelectronic Design explains many of the technical mysteries behind the Predictive Technology Model (PTM) that has been adopted worldwide in explorative design research. Through physical derivation and technology extrapolation, PTM is the de-factor device model used in electronic design.

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Abstract. This paper gives an overview of robustness in Model Predictive Control (MPC). After reviewing the basic concepts of MPC, we survey the uncertainty descriptions considered in the MPC literature, and the techniques proposed for robust constraint handling, stability, and performance. The key concept of \closed-

Robust Model Predictive Control: A Survey

An approximate algorithm is developed for the prediction of the closed-loop performance using the new robust MPC formulation, enabling rapid trade studies on the effect of controller parameters. The constraint tightening concept is applied to develop a novel algorithm for Decentralized MPC (DMPC) for teams of cooperating subsystems with coupled constraints.

Robust constrained model predictive control

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Model predictive control is an advanced method of process control that is used to control a process while satisfying a set of constraints. It has been in use in the process industries in chemical plants and oil refineries since the 1980s. In recent years it has also been used in power system balancing models and in power electronics. Model predictive controllers rely on dynamic models of the process, most often linear empirical models obtained by system identification. The main advantage of MPC

Model predictive control - Wikipedia

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