1. **Record Nr.**   UNISA996217638803316

   Titolo   CDB news / / Caribbean Development Bank

   Pubbl/distr/stampa   St. Michael, Barbados, : Caribbean Development Bank

   Soggetti   Economic development projects - Caribbean Area
   Economic development projects
   Periodicals.
   Caribbean Area

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Periodico

2. **Record Nr.**   UNINA9910346670203321

   Autore   Liu Jinfeng

   Titolo   New Directions on Model Predictive Control / Jinfeng Liu, Helen E Durand

   Pubbl/distr/stampa   MDPI - Multidisciplinary Digital Publishing Institute, 2019
   Basel, Switzerland : , : MDPI, , 2019

   ISBN   9783038974215
   3038974218

   Descrizione fisica   1 electronic resource (230 p.)

   Soggetti   History of engineering and technology

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto   Model predictive control (MPC) is an advanced control design used in many industries worldwide. An MPC selects control actions which are optimal with respect to a given performance metric as well as any physically-motivated constraints. MPC has therefore gained significant research attention over the past several decades. Advances in MPC

continue to unlock its potential to solve a wide variety of practical issues. This book presents some of the state-of-the-art in MPC design from theoretical and applications perspectives. It covers a broad spectrum of MPC application areas, reviewing applications as diverse as air conditioning, pharmaceutical manufacturing, mineral column flotation, actuator faults, and hydraulic fracturing, while also highlighting recent theoretical advancements in control technology that integrate it with data-driven models, zone tracking, or process safety and cybersecurity. Both centralized and distributed MPC formulations are presented. The purpose of this book is to assemble a collection of current research in MPC that handles practically-motivated theoretical issues as well as recent MPC applications, with the aim of highlighting the significant potential benefits of new MPC theory and design.