

1. Record Nr.	UNINA9910795209503321
Autore	Schildt Axel
Titolo	Modeling and controller design of periodic discretely controlled continuous systems // Axel Schild
Pubbl/distr/stampa	Berlin : , : Logos Verlag, , [2012] ©2012
ISBN	3-8325-9706-9
Descrizione fisica	1 online resource (487 pages)
Disciplina	519.6
Soggetti	Mathematical optimization - Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	PublicationDate: 20120208
Sommario/riassunto	<p>Long description: This work presents novel methods for the analysis and the switching law design of periodically operated discretely controlled continuous systems. Such hybrid systems consist of a continuous-valued nonlinear plant arranged in feedback connection with a modular discrete-event controller. The plant features a finite number of operation modes. Differences in the mode dynamics are employed by the controller for regulating the plant outputs according to given specifications. Both transient and stationary control scenarios are studied in this book. Transient control tasks are tackled by a tailored extension of receding horizon model-predictive control. On this basis, procedures for the successive exploration of switching surface configurations and, alternatively, for a dynamic switching law realization are presented. Stationary control tasks are tackled by a systematic design of switching plane configurations. Here, strong focus is put on disturbance attenuation. The associated design problem is translated into a set of linear or bilinear matrix inequalities, which are solved via standard tools.</p>

2. Record Nr.	UNINA9910714546303321
Titolo	Treaties and other international acts series
Pubbl/distr/stampa	[Washington, D.C.?], : Dept. of State, : For sale by the Supt. of Docs., U. S. G.P.O
Descrizione fisica	1 online resource
Collana	[Publication] ; ; 1501-<1507>
Disciplina	341.273
Soggetti	Diplomatic relations Treaties. Treaties (Compilations) United States Foreign relations Treaties United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico