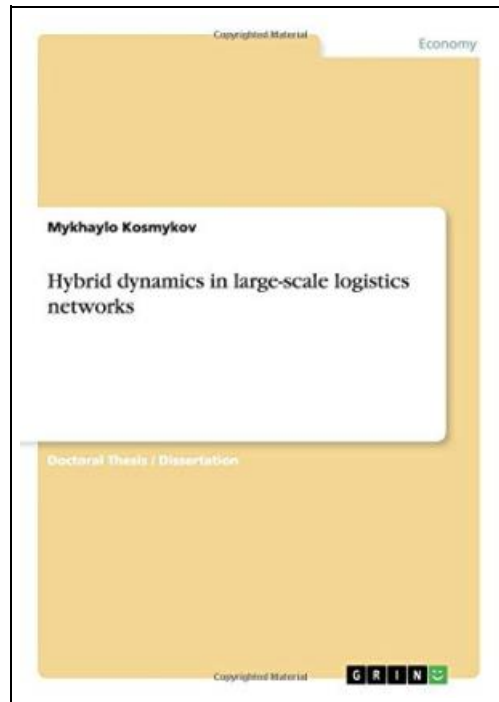


## Hybrid Dynamics in Large-Scale Logistics Networks



Filesize: 8.15 MB

### ***Reviews***

*The book is fantastic and great. This is for anyone who statte there was not a worthy of reading. I found out this publication from my i and dad advised this pdf to learn.*

***(Pete Paucek DVM)***

## HYBRID DYNAMICS IN LARGE-SCALE LOGISTICS NETWORKS



GRIN Verlag. Paperback. Condition: New. 120 pages. Dimensions: 8.3in. x 5.8in. x 0.3in. Doctoral Thesis Dissertation from the year 2011 in the subject Business economics - Supply, Production, Logistics, grade: Doctor of Philosophy, University of Bremen, language: English, abstract: We study stability properties of interconnected hybrid systems with application to large-scale logistics networks. Hybrid systems are dynamical systems that combine two types of dynamics: continuous and discrete. Such behaviour occurs in wide range of applications. Logistics networks are one of such applications, where the continuous dynamics occurs in the production and processing of material and the discrete one in the picking up and delivering of material. Stability of logistics networks characterizes their robustness to the changes occurring in the network. However, the hybrid dynamics and the large size of the network lead to complexity of the stability analysis. In this thesis we show how the behaviour of a logistics networks can be described by interconnected hybrid systems. Then we recall the small gain conditions used in the stability analysis of continuous and discrete systems and extend them to establish input-to- state stability (ISS) of interconnected hybrid systems. We give the mixed small gain condition in a matrix form, where one matrix describes the interconnection structure of the system and the second diagonal matrix takes into account whether ISS condition for a subsystem is formulated in the maximization or the summation sense. The small gain condition is sufficient for ISS of an interconnected hybrid system and can be applied to an interconnection of an arbitrary finite number of ISS subsystems. We also show an application of this condition to particular subclasses of hybrid systems: impulsive systems, comparison systems and the systems with stability of only a part of the state. Furthermore, we introduce an approach for structure-preserving model reduction for large-scale logistics...



[Read Hybrid Dynamics in Large-Scale Logistics Networks Online](#)



[Download PDF Hybrid Dynamics in Large-Scale Logistics Networks](#)

## Other Books



**Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually...

[Read eBook >](#)



**Read This First: The Executive s Guide to New Media-From Blogs to Social Networks**

iUniverse, United States, 2009. Paperback. Book Condition: New. 228 x 150 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.What is your Company s Online Reputation? If you want proof that business...

[Read eBook >](#)



**Daddyteller: How to Be a Hero to Your Kids and Teach Them What s Really by Telling Them One Simple Story at a Time**

Createspace, United States, 2013. Paperback. Book Condition: New. 214 x 149 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.You have the power, Dad, to influence and educate your child. You can...

[Read eBook >](#)



**Kid Toc: Where Learning from Kids Is Fun!**

Createspace, United States, 2012. Paperback. Book Condition: New. Hanne Simone Larsen (illustrator). 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Where learning to read from kids is fun!...

[Read eBook >](#)



**Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America.**

Createspace, United States, 2015. Paperback. Book Condition: New. 258 x 208 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This isn t porn. Everyone always asks and some of our family thinks...

[Read eBook >](#)