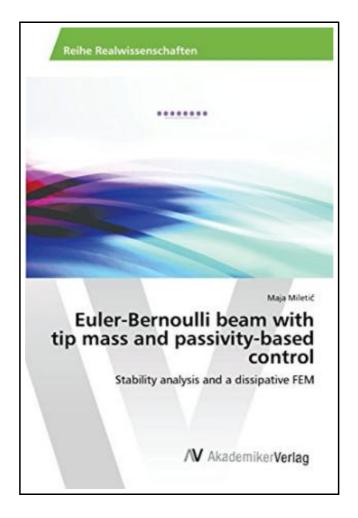
Euler-Bernoulli beam with tip mass and passivity-based control



Filesize: 6.39 MB

Reviews

Merely no terms to spell out. It really is rally exciting through reading through period. Your daily life period is going to be enhance as soon as you complete looking over this ebook.

(Yvette Marquardt)

EULER-BERNOULLI BEAM WITH TIP MASS AND PASSIVITY-BASED CONTROL



AV Akademikerverlag Nov 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x10 mm. This item is printed on demand - Print on Demand Neuware - In this work, time evolution of a cantilever with a tip body is considered. The cantilever is modeled by the Euler-Bernoulli beam equation. A passivity based dynamic feedback controller is applied at the free end to include damping. The main question considered in this work is the long-term behavior of such controlled systems, in particular the asymptotic stability. To perform the stability analysis, the system is posed as an evolution problem. Identifying an appropriate Lyapunov functional proves to be fundamental for the analysis. Demonstrating the precompactness of system trajectories, the asymptotic stability follows from La Salle's invariance principle. However, when the control law includes nonlinearities, the proof for the precompactness of the system trajectories is difficult and a novel approach needs to be developed. Another considered problem is a numerical method for the controlled Euler-Bernoulli beam system. The finite element method is utilized for the space discretization, and the Crank-Nicolson scheme for time discretization. To illustrate the effectiveness and dissipativity of the developed numerical method, simulation results are presented. 168 pp. Englisch.



Read Euler-Bernoulli beam with tip mass and passivity-based control Online

Download PDF Euler-Bernoulli beam with tip mass and passivity-based control

See Also



On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback

Book Condition: Brand New. Book Condition: Brand New.

Save ePub »



Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products

Fair Winds Press, 2006. Paperback. Book Condition: New. Brand new books and maps available immediately from a reputable and well rated UK bookseller - not sent from the USA; despatched promptly and reliably worldwide by...

Save ePub »



Learn at Home:Learn to Read at Home with Bug Club: Pink Pack Featuring Trucktown (Pack of 6 Reading Books with 4 Fiction and 2 Non-fiction)

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, Learn at Home:Learn to Read at Home with Bug Club: Pink Pack Featuring Trucktown (Pack of 6 Reading Books with 4 Fiction and 2 Non-fiction), Catherine...

Save ePub »



Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success

Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How...

Save ePub »



Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age

Adams Media Corporation. Paperback. Book Condition: new. BRAND NEW, Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age, David Dutwin, TV. Web Surfing. IMing. Text Messaging. Video...

Save ePub »



Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.

Read Document »



Pickles To Pittsburgh: Cloudy with a Chance of Meatballs 2

Atheneum Books for Young Readers, 2000. Paperback. Book Condition: New. No Jacket. New paperbook print book copy of Pickles to Pittsburgh: Cloudy with a Chance of Meatballs 2 written by Judi Barrett. Drawn by Ron

Read Document »



Your Pregnancy for the Father to Be Everything You Need to Know about Pregnancy Childbirth and Getting Ready for Your New Baby by Judith Schuler and Glade B Curtis 2003 Paperback

Book Condition: Brand New. Book Condition: Brand New.

Read Document »



The Day Lion Learned to Not Be a Bully: Aka the Lion and the Mouse

Createspace, United States, 2013. Paperback. Book Condition: New. Large Print. 279 x 216 mm. Language: English. Brand New Book ***** Print on Demand *****. The beloved Classic tale The Lion and the Mouse gets the

Read Document »



Read Write Inc. Phonics: Orange Set 4 Storybook 2 | Think | Want to be a Bee

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 209 x 149 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Read Document »