

Passivity Based Control Of Euler Lagrange Systems Mechanical Electrical And Electromechanical Applications Communications And Control Engineering

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Passivity Based Control Of Euler

We highly recommend Passivity-based Control of Euler-Lagrange Systems: Mechanical, Electrical and Electromechanical Applications for bot the researcher interested in advanced passivity-based control techniques and the engineer seeking experimentally proven techniques. The pedagogical style of the authors lend to the readability and the flow of knowledge to the reader; hence, this text lends itself to classroom use as a graduate level text in passivity-based control.

Passivity-based Control of Euler-Lagrange Systems ...

Passivity-based Control of Euler-Lagrange Systems. Romeo Ortega, Antonio Loria, Per Johan Nicklasson and Hebertt Sira-Ramfrez. Passivity-based Control of Euler-Lagrange Systems. Mechanical, Electrical and Electromechanical Applications.

Passivity-based Control of Euler-Lagrange Systems

Passivity-based Control of Euler-Lagrange Systems: Mechanical, Electrical and Electromechanical Applications. R. Ortega, A. Lonia, P.J. Nicklasson and H. Sira-RamirezSpringer1998543 pp.ISBN 1-85233-016-3£60.00 Hardcover. This book is primarily aimed at graduate students and researchers with an interest in engineering applications for control theory.

Passivity-based Control of Euler-Lagrange Systems ...

The fundamental concept of passivity and the perspective of control as a suitable interconnection of the system with its environment are key ingredients in all the developments of the book, which is primarily aimed at control-orientated graduate students and researchers, but which will also have value for both practising engineers and those concerned with the more theoretical side of the subject.

Passivity-based Control of Euler-Lagrange Systems ...

Passivity-based Control of Euler-Lagrange Systems: Mechanical, Electrical and Electromechanical Applications (Communications and Control Engineering) by Romeo Ortega (2010-12-08) Mass Market Paperback – January 1, 1750. Enter your mobile number or email address below and we'll send you a link to download the free Kindle App.

Passivity-based Control of Euler-Lagrange Systems ...

Passivity-based Control of Euler-Lagrange Systems. : Romeo Ortega, Antonio Loria, Julio Antonio Loria Perez, Per Johan Nicklasson, Hebertt J. Sira-Ramirez. Springer, Sep 16, 1998 - Technology &...

Passivity-based Control of Euler-Lagrange Systems ...

Passivity-based Control of Euler-Lagrange Systems: Mechanical, Electrical and Electromechanical Applications Romeo Ortega PhD, Antonio Loria PhD, Per Johan Nicklasson Dr Ing, Hebertt Sira-Ramírez PhD (auth.)

Passivity-based Control of Euler-Lagrange Systems ...

Book Description: The essence of this work is the control of electromechanical systems, such as manipulators, electric machines, and power converters. The common thread that links together the results presented here is the passivity property, which is at present in numerous electrical and mechanical systems, and which has great relevance in control engineering at this time.

[PDF] passivity based control of euler lagrange systems ...

Passivity based control is a methodology which consists in controlling a system with the aim at making the closed loop system, passive. The field constitutes an active research direction and therefore in this chapter we give only a basic overlook of the most important concepts involved. A section is also devoted to a wide class of physical

PASSIVITY BASED CONTROL

Abstract. In this paper we survey some recent results on stabilization of nonlinear systems using a passivity approach. In the first part of the paper we treat general systems and develop a unified framework for passivity-based nonlinear control design. In the second part we center our attention on systems described by Euler-Lagrange equations, with particular emphasis on mechanical systems, power converters and AC motors.

Passivity-based control of nonlinear systems: A tutorial ...

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Passivity-Based Control of Euler-Lagrange Systems ...

Download Passivity Based Control Of Euler Lagrange Systems Mechanical Electrical And Electromechanical Applications IT Consultants in Bowling Green Kentucky ABR Systems Group is a provider of IT consulting and software solutions designed to help our clients improve their operations and bottom line.

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In passivity-based control the main objective is to impose, via the control, the passivity property to some suitably defined map. Under some detectability-like conditions asymptotic stability will then follow. For Euler-Lagrange systems we dispose of a rather systematic procedure to carry out this task.

Passivity-based control of Euler-Lagrange systems ...

The aim of passivity-based control methodology is to render the closed-loop system passive,. Essentially, as shown in Fig. 1, the standard passivity-based control is achieved by interconnecting another Euler-Lagrange (EL) system with the control plant. The resulting controller can be called EL controller.

Distributed passivity-based control for multiple flexible ...

Passivity-based Control of Euler-Lagrange Systems pp 15-37 | Cite as. Euler-Lagrange systems. Authors; Authors and affiliations; Romeo Ortega; Antonio Loria; Per Johan Nicklasson; Hebertt Sira-Ramírez; Chapter. 1.2k Downloads; Part of the Communications and Control Engineering book series (CCE) Abstract. It has been argued in the Introduction ...

Euler-Lagrange systems | SpringerLink

Passivity-based control of Euler-Lagrange systems : mechanical, electrical, and electromechanical applications. [Romeo Ortega;] -- New technological developments have created engineering problems where nonlinear effects have to be taken into account for a successful controller design.

Passivity-based control of Euler-Lagrange systems ...

Abstract: This paper deals with the problem of achieving consensus of multiple Euler-Lagrange (EL) systems using the energy shaping plus damping injection principles of passivity-based control. It proposes a novel decentralized controller that is capable of solving the leaderless and the leader-follower consensus problems in networks of fully actuated EL-systems with interconnecting time-varying delays and without employing velocity measurements.