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We highly recommend Passivity-based Control of Euler-Lagrange Systems: Mechanical, Electrical and Electromechanical Applications for both 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 ...

Details about Passivity-Based Control of Euler-Lagrange Systems : The essence of this work is the control of electromechanical systems, such as manipulators, electric machines, and power converters.

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Lagrange Systems ...

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.

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We highly recommend Passivity-based Control of Euler-Lagrange Systems: Mechanical, Electrical and Electromechanical Applications for both the researcher interested in advanced passivity-based control techniques and the engineer seeking experimentally proven techniques. The pedagogical style of... show more

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The fundamental concept of passivity

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

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passivity based control of euler-lagrange systems

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 ...

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

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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

Euler-Lagrange (EL) systems, passivity, applications and the advantages of Passivity-based Control (PBC) are explained in chapter 1.

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 article we give only a basic overlook of the most important concepts involved.

Passivity based control — Eindhoven University of ...

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Lagrange Systems: "Mechanical, Electrical And Electromechanical Applications" (Communications and Control Engineering)

9781849968522: Passivity-based Control of Euler-Lagrange ...

Neuware - 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.

9781852330163: Passivity-based Control of Euler-Lagrange ...

In this chapter we describe the class of systems that we will consider throughout the book and which we call Euler-Lagrange (EL) systems. The most important reason for singling out the study of EL systems is that they capture

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a large class of contemporary engineering problems, specially some which are intractable with linear control tools.

Euler-Lagrange systems | SpringerLink

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