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Hardcover. This book is primarily aimed at graduate students and researchers with an interest in engineering applications for control theory.

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control as a suitable  
interconnection of the  
system with its

environment are key  
ingredients in all the  
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orientated graduate  
students and  
researchers, but which  
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Ortega, Antonio Loría,

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Ortega PhD, Antonio

Loría PhD, Per Johan

Nicklasson Dr Ing,

Hebertt Sira-Ramírez

PhD (auth.)

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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

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electrical and  
mechanical systems,  
and which has great  
relevance in control  
engineering at this  
time.

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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



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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

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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.

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**Passivity-based  
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software solutions

designed to help our

clients improve their

operations and bottom

line.

Electrical And

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**Systems ...**

In passivity-based

control the main

objective is to impose,

via the control, the

passivity property to

some suitably defined

map. Under some

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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

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Euler-Lagrange

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.

Engineering

**Distributed passivity-based control for multiple flexible ...**

Passivity-based Control

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Systems pp 15-37 |

Cite as. Euler-Lagrange  
systems. Authors;

Authors and

affiliations; Romeo

Ortega; Antonio Loría;

Per Johan Nicklasson;

Hebertt Sira-Ramírez;

Chapter. 1.2k

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book series (CCE)

Abstract. It has been

argued in the

Introduction...



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systems |  
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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

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account for a  
successful controller  
design.

**Passivity-based  
control of Euler-  
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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

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Mechanical

leader-follower

consensus problems in

networks of fully

actuated EL-systems

with interconnecting

time-varying delays

and without employing

velocity

measurements.

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