

Modeling And Control Of Complex Physical Systems The Port Hamiltonian Approach

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Contributions to Port-Hamiltonian Systems
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A Port-Hamiltonian Approach to Distributed Parameter Systems
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SIAM Journal on Control and Optimization
Port-Hamiltonian Realizations of Linear Time Invariant Systems
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energy exchange is a major foundation of the dynamics of physical systems and hence in the study of complex multi domain systems methodologies that explicitly describe the topology of energy exchanges are instrumental in structuring the modeling and the computation of the system s dynamics and its control this book is the outcome of the european project geoplex fp5 ist 2001 34166 that studied and extended such system modeling and control methodologies this unique book starts from the basic concept of port based modeling and extends it to port hamiltonian systems this generic paradigm is applied to various physical domains showing its power and unifying flexibility for real multi domain systems

an up to date survey of the theory of port hamiltonian systems is given emphasizing novel developments and relationships with other formalisms port hamiltonian systems theory yields a systematic framework for network modeling of multi physics systems examples from different areas show the range of applicability while the emphasis is on modeling and analysis the last part provides a brief introduction to control of port hamiltonian systems

this book provides a self contained introduction to the theory of infinite dimensional systems theory and its applications to port hamiltonian systems the textbook starts with elementary known results then progresses smoothly to advanced topics in current research many physical systems can be formulated using a hamiltonian framework leading to models described by ordinary or partial differential equations for the purpose of control and for the interconnection of two or more hamiltonian systems it is essential to take into account this interaction with the environment this book is the first textbook on infinite dimensional port hamiltonian systems an abstract functional analytical approach is combined with the physical approach to hamiltonian systems this combined approach leads to easily verifiable conditions for well posedness and stability the book is accessible to graduate engineers and mathematicians with a minimal background in functional analysis moreover the theory is illustrated by many worked out examples

this monograph deals with energy based control of interactive robotic interfaces the port hamiltonian framework is exploited both for modeling and controlling interactive robotic interfaces the book provides an energy oriented analysis and control synthesis of interactive robotic interfaces from a single robot to multi robot systems for interacting with real and virtual possibly unstructured environments

this article provides a concise summary of the basic ideas and concepts in port

hamiltonian systems theory and its use in analysis and control of complex multiphysics systems it gives special attention to new and unexplored research directions and relations with other mathematical frameworks emergent control paradigms and open problems are indicated including the relation with thermodynamics and the question of uniting the energy processing view of control as emphasized by port hamiltonian systems theory with a complementary information processing viewpoint

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