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- Control of gasoline engines, control of air/fuel, ignition, knock, idle, coolant, adaptive control functions -
Control of diesel engines, combustion

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models, air flow and exhaust recirculation control, combustion-pressure-based control (HCCI), optimization of feedforward and feedback control, smoke limitation and emission control

Engine Modeling and Control | SpringerLink

A rather exhaustive presentation of ship navigation and control models can be found in

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the volume written by Fossen [1]. His main focus is on ships and underwater vehicles, but a similar approach to modeling has been extended to sailboats in [2]. The model presented [2] has also been used as a basis for theoretical studies on simulations of and control strategies for sailboats [3, 6].

Modeling and Control for an

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**Autonomous
Sailboat... -
Springer**

Different inventory control strategies will be reviewed. Modern inventory control method via dynamical system approach will be illustrated. Stability of the models will be discussed. Finally, application areas and usefulness of the models will be reported from real-life inventory control point of view.

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Inventory Modeling and Inventory Control Application

...

In this chapter, we now address modeling and control for multi-zone and building-level temperature regulation. Many commercial and residential buildings have multiple independent zones requiring space conditioning. These

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zones may be uniform in size or may have a significant size distribution.

Multi-zone Temperature Modeling and Control | SpringerLink

Abstract. This chapters covers the modeling and control of the ac/dc generation systems which would be implemented in the dc grids. The current

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and voltage source based ac/dc conversion systems with fixed frequency ac input from the stiff ac grid have been considered for HVDC applications.

Modeling and Control of Generation System for DC Grid ...

The classic text on robot manipulators now covers visual control, motion planning and mobile

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robots too!Based on
the successful
Modelling and Control
of Robot Manipulators
by Sciavicco and
Siciliano (Springer,
2000), Robotics
provides the basic
know-how on the
foundations of robotics:
modelling,

Modelling, Planning and Control - Springer

This book investigates
the latest modeling

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and control technologies in the context of air-conditioning systems. Firstly, it introduces the state-space method for developing dynamic models of all components in a central air-conditioning system. The models are primarily nonlinear and based on the

Modeling and Control in Air- conditioning

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Systems - Springer

The dynamics modeling and trajectory optimization of a segmented linkage cable-driven hyper-redundant robot (SL-CDHRR) become more challenging, since there Dynamic modeling and trajectory tracking control method of segmented linkage cable-driven hyper-redundant robot |

SpringerLink
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**Dynamic modeling
and trajectory ... -
link.springer.com**

The coronavirus disease 2019 (COVID-19) is rapidly spreading in China and more than 30 countries over last two months. COVID-19 has multiple characteristics distinct from other infectious diseases, including high infectivity during incubation, time delay between real dynamics

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and daily observed
number of confirmed
cases, and the
intervention effects of
implemented
quarantine and control
measures.

Modeling the epidemic dynamics and control of COVID-19 ...

"The topic of this book
is modeling and control
of internal combustion
engines for automotive
applications, ... In

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summary, this book is an essential text for anyone interested in engine control design. It seems appropriate for a graduate-level course in particular, for students with some control background.

Introduction to Modeling and Control of ... - Springer

The temporality of leg motions appears to be a key aspect in this

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respect, as current control solutions include continuous anticipation of future motion (using some form of model predictive control), or focusing more specifically on limit cycles and orbital stability.

Modeling and Control of Legged Robots | SpringerLink

Chaos Modeling and
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Control Systems
Design. Editors: Azar,
Ahmad Taher,
Vaidyanathan,
Sundarapandian (Eds.)
Free Preview. Presents
trends and applications
in modeling and control
of computational
intelligence; Selected
collection of
contributions from
International
Conference On Control,
Engineering &
Information Technology
(CEIT'14), March 22 ...

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**Chaos Modeling and
Control Systems
Design - Springer**

The author discusses state space modeling derived from two modeling techniques and the analysis of the system and usage of modeling in control systems design. It also contains a unique chapter on multidisciplinary energy systems with a special focus on

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bioengineering
systems and expands
upon how the bond
graph augments
research in biomedical
...

Real Time Modeling, Simulation and Control of ... - Springer

Simulation and
Modeling
Methodologies,
Technologies and
Applications. ... Part of
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Kindle File Format Modeling And Control

Cells and Robots is an outcome of the multidisciplinary research extending over Biology, Robotics and Hybrid Systems Theory. It is inspired by modeling reactive behavior of the immune system cell

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population, where each cell is considered as an independent agent. In our modeling approach, there is

Cells and Robots - Modeling and Control of ... - Springer

The special chapters have been brought out in the broad areas of Control Systems, Power Electronics, Computer Science, Information Technology, modeling

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and engineering applications. Special importance was given to chapters offering practical solutions and novel methods for the recent research problems in the main areas of this book, viz ...

Computational Intelligence Applications in Modeling and ...

A model of engine dynamics is developed.

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The model is a MISO (Multi Input Single Output) linear model which has two inputs and one output. One input is the spark timing, and the other is the ISCV (Idle Speed Control Valve) position. The output is the angular speed of an engine. The reliability of the developed model is confirmed by comparing the measured response of the engine to step

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inputs ...
Springer

**Idle speed modeling
and optimal control
of a ... - Springer**

In order to improve the control performance of strip rolling mill, theoretical model of the hydraulic gap control (HGC) system was established. HGC system offline identification scheme was designed for a tandem cold strip mill, the system model

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parameters were identified by ARX model, and the identified model was verified. Taking the offline identified parameters as the initial values, online ...

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