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model, complex enough to
handle some system non
linearities but still simple
for control or observer
design,

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Parameter Varying

Approaches. Usually

dispatched within 3 to 5

business days. Vehicles are

complex systems (non-linear,

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Varying) where the abundance of embedded controllers should ensure better security. This book aims at emphasizing the interest and potential of Linear Parameter Varying methods within the framework

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of vehicle dynamics, e.g.
proposed control-oriented
model, complex enough to
handle some system non
linearities but still simple
for control or ...

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Parameter Varying Approaches

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Applying the time varying coordinate change $z = T(x, t)$ in the state space, the dynamic equation transforms into $\dot{z} = A(z, t)z + B(z, t)u$ (t). Thus in this new

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coordinate system
controllability reduces to
the solvability study of the
equation: $z_0 = ? u_0 \dots ? ? ?$
($?, t$) $B(t)u(t)dt$ for a
suitable finite $?$.

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Parameter Varying Approaches

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Robust control for a quasi-linear parameter varying Sun-Earth L 2 formation flying

Abstract: A nonlinear controller is designed for a L 2 formation flying control

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system, and robust stability is investigated for the closed-loop system with uncertainties.

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Dependence 95

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method taking additional
advantage of the recently
emerged linear parameter
varying lpv methodology
robust performance
investigation and an
approach to design a robust

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Varying linear feedback
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is proposed only the lower
and upper bounds of the
system parameters are
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In control theory, robust control is an approach to controller design that explicitly deals with uncertainty. Robust control methods are designed to

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function properly provided that uncertain parameters or disturbances are found within some set. Robust methods aim to achieve robust performance and/or stability in the presence of bounded modelling errors.

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The early methods of Bode and others were fairly robust; the state-space methods invented in the 1960s and 1970s were sometimes found to lack ro

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...

It is shown for both the

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continuous- and discrete-
time cases that the
distributed robust control
problems under such
controllers in the sense of
quadratic stability are
equivalent to the H_2 ?
control problems of a set of

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decoupled linear systems
having the same dimensions
as a single agent. A two-
step algorithm is presented
to construct the distributed
controller for the
continuous-time case, which
does not involve any

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conservatism and meanwhile
decouples the feedback gain
design from the ...

Distributed robust control
of linear multi-agent
systems ...

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Research focuses on the
application of robust
control techniques (H-
infinity, μ and linear
parameter varying (LPV)) for

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aerospace vehicles: Flight
Control Systems (FCS) Fault
Detection and Isolation
(FDI) Fault Tolerant Control
(FTC) Verification and
Validation (V&V) Modeling:
linear fractional
transformation (LFT) and;

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(LPV)

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: application to vehicle dynamics. [Olivier Sename; Péter Gáspár; J Bokor;] -- Vehicles are complex systems (non-linear, multi-variable) where the abundance of embedded controllers should ensure better security. This

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book aims at emphasizing the
interest and potential of
Linear ...

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A linear parameter varying

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(LPV) model is developed to approximate the nonlinear singularly perturbed model. Then stability and robust properties of the open-loop linear singularly perturbed system are analyzed using linear matrix inequalities

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