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Editors; Marcio S. de
Queiroz ... These
include necessary and
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Control,

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characterizations of
stability, input-to-state
stability, the

construction of
feedback mechanisms,
viscosity solutions of

Hamilton-Jacobi
equations, invariance,
approximation ...

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Michael, Wolenski,
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Marcio S. de Queiroz,
Michael Malisoff, Peter
Wolenski This edited
book contains selected
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C.so Duca degli
Abruzzi, 24 - 10129
Torino - Italy

bacciotti@polito.it cera
giol@calvino.polito.it

Abstract For a ne
control systems, we
study the relationship
between an optimal
regulation problem on

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stabilization The o rem
3.2. Le t syste m (1.1
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(x) be cont inuous,
radially un-

**(PDF) Nonsmooth
Optimal Regulation
and Discontinuous**

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We investigate a nonsmooth Newton's method for the numerical solution of discretized optimal control problems subject to pure state constraints and mixed control-state constraints. The infinite dimensional problem is discretized by application of a general one-step method to the differential equation.

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**[PDF] Optimal
control via
nonsmooth analysis
by Philip D ...**

to optimal) control has
come to light more
recently. It appears in
particular that in the
analysis of truly
nonlinear control
systems, the
consideration of
nonsmooth Lyapunov
functions and
discontinuous
feedbacks becomes un-
avoidable. II.

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Nonsmooth
Analysis Lecture

Introduction The basic object in the control theory of ordinary differential equations is the system

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**Nonsmooth Analysis
in Systems and
Control Theory**

The stability analysis for linear-quadratic problems plays an essential role in the analysis of nonlinear optimal control problems, in the convergence of the

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SQP method, and in the convergence of solutions to a discretized problem to solutions of the continuous problem.

Stability and Sensitivity Analysis in Optimal Control of

...

Clarke FH (2004)
Lyapunov functions and feedback in nonlinear control. In: de Queiroz MS, Malisoff M, Wolenski P (eds)

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[Marcio S de Queiroz;

Peter Wolenski;

Michael Malisoff;]

Analysis Lecture

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Abstract The method of

Lyapunov functions

plays a central role in

the study of the

controllability and

stabilizability of control

systems. For nonlinear

systems, it turns out to

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be essential to...

Stabilization And

Lyapunov Functions

and Feedback in

Nonlinear Control ...

CiteSeerX - Document

Details (Isaac Council,

Lee Giles, Pradeep

Teregowda): Summary.

We discuss several

issues related to the

stabilizability of

nonlinear systems. For

a given continuously

stabilizable system, we

review some

constructions of

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feedbacks that render the system input-to-state stable with respect to actuator errors. We also announce a new feedback design that makes globally ...

**CiteSeerX —
Asymptotic
controllability and
input-to-state ...**

We examine the relationships between lower exhausters, quasidifferentiability

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Control
(in the Demyanov and

Rubinov sense), and

optimal control for
switching systems.

Firstly, we get

necessary optimality
condition for the

optimal control

problem for switching
system in terms of

lower exhausters.

Then, by using
relationships between

lower exhausters and
quasidifferentiability,

we obtain necessary ...

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**Optimal Control
Problem for
Switched System
with the ...**

The second part is devoted to the methods of nonsmooth optimization and their development. A proximal bundle method for nonsmooth nonconvex optimization subject to nonsmooth constraints is constructed. In the last part nonsmooth optimization is applied

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to problems arising from optimal control of systems covered by partial differential equations.

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Nonsmooth Optimization:

Analysis And Algorithms With ...

Abstract. This paper provides a survey of the theory of patchy feedbacks, and its applications to asymptotic stabilization and

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optimal control. It also contains two new results, showing the robustness of sub-optimal patchy feedbacks both in the case of (internal and external) deterministic disturbances, and of random perturbations modelled by stochastic Brownian motion.

Patchy feedbacks for stabilization and optimal control, in ...

I. Shvartsman, New

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in the Proof of the
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Mathematical Analysis
and Applications, Vol.
Series
326, 2007, pp.
974-1000

Ilya Shvartsman,
Ph.D. | Penn State
Harrisburg

control law. 4 OPTIMAL
CONTROL APPROACH

In Section I, we

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mentioned using the invariant subset approach and the necessary and sufficient conditions for set stabilization for the BNCs have been established in [27]. In the following section, the feedback controller for set stabilization that was designed by the optimal control approach will be ...

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