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amount of literature in  
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and control.

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control, covering  
research, development  
and applications, has  
been developed in  
Europe since the 90's.  
Nevertheless, the  
existing books in the

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field are compilations of articles without interconnection or logical structure or they express the personal point of view of the author.

## **Fuzzy Modeling and Control: Theory and Applications ...**

Fuzzy logic methodology has been proven effective in dealing with complex nonlinear systems containing

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uncertainties that are otherwise difficult to model. Technology based on this methodology has been

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## **FUZZY CONTROL SYSTEMS DESIGN AND ANALYSIS**

(February 2010) A  
fuzzy control system is  
a control system based  
on fuzzy logic —a

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mathematical system that analyzes analog input values in terms of logical variables that take on continuous values between 0 and 1, in contrast to classical or digital logic, which operates on discrete values of either 1 or 0 (true or false, respectively).

## **Fuzzy control system - Wikipedia**

Fuzzy logic offers a promising solution to

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this conceptual design through fuzzy modeling. Numerous fuzzy logic studies are available in the non-mechanical engineering field and allied areas such...

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**Fuzzy identification of systems and its**

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Allows those already familiar with type-1 fuzzy sets and systems to rapidly come up to speed to type-2 fuzzy sets and systems;  
Features complete classroom material including end-of-chapter exercises, a solutions manual, and three case studies -- forecasting of time series to knowledge mining from surveys and PID control.

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Based on three types of fuzzy models—the Mamdani fuzzy model, the Takagi-Sugeno fuzzy model, and the fuzzy hyperbolic model—the book addresses a number of important issues in fuzzy control systems, including fuzzy

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modeling, fuzzy inference, stability analysis, systematic design frameworks, robustness, and optimality.

## **Fuzzy Modeling and Fuzzy Control | Huaguang Zhang | Springer**

This paper investigates robust active reliable control issues using a combination of Takagi-Sugeno (T-S) fuzzy system modeling and

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Integral Sliding Mode Control (ISMC) schemes. The presented reliable scheme is shown to retain the benefits of both T-S modeling and ISMC design.

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Chen B and Chang Y  
(2009) Fuzzy state-  
space modeling and  
robust observer-based  
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nonlinear partial  
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IEEE Transactions on  
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(1025-1043), Online  
publication date:  
1-Oct-2009.

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Power Management  
Supervisor (PMS) based  
on Fuzzy Logic (FL)

construction  
methodology P g P

DESCRIPTION OF  
STUDIED SYSTEM

Architecture Following  
figure presents a  
synopsis of the  
considered Renewable  
Distributed Generation  
(RDG) system. It is  
composed by a wind  
power system  
associated with BT/SC

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the unmeasurable states of the proposed system.

## **Event-Triggered Observer-based Sliding Mode Control for T ...**

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fault estimation  
observer: An inverse**

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for Nonlinear Control  
Systems and Their  
Application to Multiple-  
Input Multiple-Output  
(MIMO) Systems. E.  
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and S. Xie, Fuzzy Set  
Theory to Difference  
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Utilization in Modeling  
Diverse Systems.

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Two separate goals  
should be jointly  
pursued in wastewater  
treatment: nutrient  
removal and energy  
conservation. An  
efficient controller  
performance should  
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