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Fractional Order Differentiation and Robust Control Design CRONE, H-infinity and Motion Control. Authors: Sabatier, J., Lanusse, P., Melchior, P., Oustaloup, A. Free Preview. Part of the book is based on CRONE, the software developed by the authors which is freely available online; Includes detailed examples and applications ...

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Themes such as PID control, robust path tracking design and motion control methodologies involving fractional differentiation are amongst those explored. It juxtaposes recent theoretical results at the forefront in the field, and applications that can be used as exercises that will help the reader to assimilate the proposed methodologies.

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fractional PI and PID Fractional Order Differentiation and Robust Control Design, robust and CRONE control, and fractional path planning and path tracking. Coverage features theoretical results, applications and exercises. The book will be useful for post-graduate students who are looking to learn more on fractional systems and control.

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However, applying the fractional differentiation operator practically is always difficult. So far few methods have been developed in the literature for fractional-order integrators and differentiators of the form s^ν , $\nu \in (-1, 1)$ for the simulation and realization. Among others, the Oustaloup recursive approximation (Oustaloup et al., 2000; Podlubny, 2002; Merrikh-Bayat, 2012b) is the ...

Fractional-Order - an overview | ScienceDirect Topics

In the fields of dynamical systems and control theory, a fractional-order system is a dynamical system that can be modeled by a fractional differential equation containing derivatives of non-integer order. Such systems are said to have fractional dynamics.Derivatives and integrals of fractional orders are used to describe objects that can be characterized by power-law nonlocality, power-law ...

Fractional-order system - Wikipedia

Fractional differentiation, also called non-integer differentiation, is not a new concept: it dates back to Cauchy, Riemann, Liouville and Letnikov in the 19th century. Since then, several theoretical physicists and mathematicians have studied fractional differential equations, especially fractional-order linear differential equations.

Fractional differentiation for edge detection - ScienceDirect

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