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systems are typically fractional order, but
often just the controller is designed as
that, as the plant is modeled with integer
order differintegral operators. A robust
fractional order controller requires less
coefficients than the integer one [48].

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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

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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.

Engineering

Fractional Order Calculus: Basic
Concepts and Engineering ...

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 calculus is a branch of mathematical analysis that studies the several different possibilities of defining

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real number powers or complex number powers of the differentiation operator $D = \frac{d}{dt}$ and of the integration operator $J = \int dt$, and developing a calculus for such operators generalizing the classical one.. In this context, the term powers refers to iterative application of a ...

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Oustaloup] -- Preface; Application of
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Fractional Order Models; 1.1
Introduction; 1.2 Definitions; 1.2.1 ...

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which is a highly-selective and noise-
robust ERSF detector combining the
Gaussian smooth filtering and the
fractional-order differential
methodologies based on the fractional-
order Gaussian derivative (FoGD) by
using the Caputo-Fabrizio (CF)-based

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fractional-order derivative definition,
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Fractional Order Models | SpringerLink

This paper investigates fractional order differentiation and its applications in digital image processing. ... The experiments show that our model is more accurate and robust than these classical ...

Fractional order differentiation and robust control design ...

In this book, the terms “fractional differentiation” or “fractional integration” are used to describe fractional order differential operators. This denomination is the most prevalent, although it is restrictive as it subsumes under a single term differentiation orders that can be integer, fractional, real and/or complex.

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This monograph collates the past decade's work on fractional models and fractional systems in the fields of analysis, robust control and path tracking. Themes such as PID control, robust path tracking design and motion control methodologies involving fractional differentiation are amongst those explored.

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This book provides an overview of the research done and results obtained during the last ten years in the fields of fractional systems control, fractional PI and PID control, robust and CRONE control, and fractional path planning and path tracking. Coverage features theoretical results,

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A Robust Active Contour Segmentation Based on Fractional-Order

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Abstract: Vascular diseases cause a wide range of severe health problems. Vessel images are often corrupted by intensity inhomogeneity and blurry boundary, which makes it difficult to segment vessel image to identify vascular lesions.

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