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derivative wikipedia
web in mathematics the derivative of a function of a real variable measures the sensitivity to change of the function value output value with respect to a change in its argument input value derivatives are a fundamental tool of calculus for example the derivative of the position of a moving object with respect to time is the object s velocity this measures how

on riemann liouville and caputo derivatives hindawi
web mar 24 2011   recently many models are formulated in terms of fractional derivatives such as in control processing viscoelasticity signal processing and anomalous diffusion in the present paper we further study the important properties of the riemann liouville rl derivative one of mostly used fractional derivatives some important properties of the

computational challenge of fractional differential equations and
web mar 26 2015   for the fractional ordinary equations and fractional order control systems are also studied 9 10 the stability of fractional order control systems attracts many attentions 11 12 for example laguerre continued fraction

expansion of the tustin fractional discrete time operator was investigated by maione

hidden markov model wikipedia
web a hidden markov model hmm is a statistical markov model in which the system being modeled is assumed to be a markov process call it with unobservable hidden states as part of the definition hmm requires that there be an observable process whose outcomes are influenced by the outcomes of in a known way since cannot be observed

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integral wikipedia
web in mathematics an integral assigns numbers to functions in a way that describes displacement area volume and other concepts that arise by combining infinitesimal data the process of finding integrals is called integration along with differentiation integration is a fundamental essential operation of calculus and serves as a tool to solve problems in

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web when students become active doers of mathematics the greatest gains of their mathematical thinking can be realized both members and non members can engage with resources to support the implementation of the notice and wonder strategy on

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calculus wikipedia

web calculus originally called infinitesimal calculus or the calculus of infinitesimals is the mathematical study of continuous change in the same way that geometry is the study of shape and algebra is the study of generalizations of arithmetic operations it has two major branches differential calculus and integral calculus the former concerns instantaneous

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web game theory is the study of mathematical models of strategic interactions among rational agents it has applications in all fields of social science as well as in logic systems science and computer science originally it addressed two person zero sum games in which each participant s gains or losses are exactly balanced by those of other participants

fractional order calculus basic concepts and engineering applications

web the fractional order calculus foc is as old as the integer one although up to recently its application was exclusively in mathematics many real systems are better described with foc differential equations as it is a well suited tool to analyze problems of fractal dimension with long term memory and chaotic behavior those characteristics have attracted the

multivariable calculus wikipedia

web multivariable calculus also known as multivariate calculus is the extension of calculus in one variable to calculus with functions of several variables the differentiation and integration of functions involving several variables rather than just one multivariable calculus may be thought of as an elementary part of advanced calculus for advanced

fractional calculus wikipedia

web fractional calculus is a branch of mathematical analysis that studies the several different possibilities of defining real number powers or complex number powers of the differentiation operator and of the integration operator and developing a calculus for such operators generalizing the classical one in this context the term powers refers to

poisson point process wikipedia

web a spatial poisson process is a poisson point process defined in the plane for its mathematical definition one first considers a bounded open or closed or more precisely borel measurable region of the plane the number of points of a point process existing in this region is a random

variable denoted by if the points belong to a homogeneous

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web nov 25 2022   welcome to the home page of the research group in calculus of variations and geometric measure theory at pisa look geometry and control in cortona 8 12 may 2023 xxxii convegno nazionale di stability with explicit constants of the critical points of the fractional sobolev inequality and applications to fast diffusion

fpinns fractional physics informed neural networks

web physics informed neural networks pinns introduced in m raissi p perdikaris and g karniadakis j comput phys 378 2019 pp 686 707 are effective in solving integer order partial differential equations pdes based on scattered and noisy data pinns employ standard feedforward neural networks nns with the pdes explicitly encoded into the

stochastic calculus wikipedia

web stochastic calculus is a branch of mathematics that operates on stochastic processes it allows a consistent theory of integration to be defined for integrals of stochastic processes with respect to stochastic processes this field was created and started by the japanese mathematician kiyoshi itô during world war ii the best known stochastic process to