

FREE APPLICATIONS OF FRACTIONAL CALCULUS IN PHYSICS

Fractional calculus [x]Fractional calculus is a branch of mathematical analysis that studies the several different possibilities of defining real number powers or complex number... Tensor calculus [x]that is independent of the choice of coordinates on the manifold. Tensor calculus has many applications in physics, engineering and computer science including... Calculus [x]Calculus 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... Differentiate (redirect from Fractional integration and differentiation) [x]In fractional calculus, an area of mathematical analysis, the differintegral is a combined differentiation/integration operator. Applied to a function... Operational calculus [x]went further and defined fractional power of p , thus establishing a connection between operational calculus and fractional calculus. Using the Taylor expansion... History of calculus [x]infinitesimal calculus to problems in physics and astronomy was contemporary with the origin of the science. All through the 18th century these applications were... Differential calculus [x]In mathematics, differential calculus is a subfield of calculus that studies the rates at which quantities change. It is one of the two traditional divisions... Derivative (redirect from Derivative (calculus)) [x]ISBN 978-1-139-49269-0 Georgiev, Svetlin G. (2018), Fractional Dynamic Calculus and Fractional Dynamic Equations on Time Scales, Springer, doi:10.1007/978-3-319-73954-0... Integral (redirect from Integral calculus) [x]generalizations. Integration, the process of computing an integral, is one of the two fundamental operations of calculus, the other being differentiation. Integration... Matrix calculus [x]tensor index notation is preferred in physics. Two competing notational conventions split the field of matrix calculus into two separate groups. The two... Stochastic calculus [x]Stochastic calculus is a branch of mathematics that operates on stochastic processes. It allows a consistent theory of integration to be defined for integrals... Multivariable calculus [x]Multivariable calculus (also known as multivariate calculus) is the extension of calculus in one variable to calculus with functions of several variables:... Fractional-order system [x]ISBN 0-12-525550-0. Fractional Calculus Applications in Automatic Control and Robotics A tutorial on fractional calculus, fractional order systems and fractional order... Differential equation (redirect from Applications of differential equations) [x]degree of accuracy. Differential equations came into existence with the invention of calculus by Isaac Newton and Gottfried Leibniz. In Chapter 2 of his... Vector calculus [x]Vector calculus plays an important role in differential geometry and in the study of partial differential equations. It is used extensively in physics and... Calculus of variations [x]The calculus of variations (or variational calculus) is a field of mathematical analysis that uses variations, which are small changes in functions and... Tilak Raj Prabhakar (category Lists of Indian scientists) [x]found to have numerous applications in various areas of mathematics like fractional calculus and also in certain areas of physics. The function has since... Fractional Fourier transform [x]In mathematics, in the area of harmonic analysis, the fractional Fourier transform (FRFT) is a family of linear transformations generalizing the Fourier... Helmholtz decomposition (redirect from Fundamental theorem of vector calculus) [x]In physics and mathematics, the Helmholtz decomposition theorem or the fundamental theorem of vector calculus states that certain differentiable vector... Prabhakar function (category Fractional calculus) [x]the function was found to have applications in the theory of fractional calculus and also in certain areas of physics. The one-parameter and two-parameter...

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