

q fractional calculus and pdf

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 $D = ()$, and of the integration operator $J = \hat{\alpha} \ll ()$, and developing a calculus for such operators generalizing the classical one.. In this context, the term powers refers to iterative application of a ...

Fractional calculus - Wikipedia

The fractional Schrödinger equation is a fundamental equation of fractional quantum mechanics. It was discovered by Nick Laskin (1999) as a result of extending the Feynman path integral, from the Brownian-like to Lévy-like quantum mechanical paths. The term fractional Schrödinger equation was coined by Nick Laskin.

Fractional Schrödinger equation - Wikipedia

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The binomial theorem was known for the case by Euclid around 300 BC, and stated in its modern form by Pascal in a posthumous pamphlet published in 1665. Pascal's pamphlet, together with his correspondence on the subject with Fermat beginning in 1654 (and published in 1679) is the basis for naming the arithmetical triangle in his honor.

Binomial Theorem -- from Wolfram MathWorld

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