

fractional calculus an introduction 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

Calculus (from Latin calculus, literally 'small pebble', used for counting and calculations, as on an abacus) 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 (concerning instantaneous rates of change and slopes of curves ...

Calculus - Wikipedia

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