

Fractional Dynamics Applications Of Fractional Calculus To Dynamics Of Particles Fields And Media Nonlinear Physical Science

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Global boundedness and asymptotic behavior of equation ...

there are many important applications in many fields such as spatial ecology, evolution of species, and disease dissemination of the non-local reaction-diffusion equation [15, 16, 17]. When $s=1$ and $0 < \alpha < 1$, the fractional operator $-(-\Delta)^s$ become the standard Laplacian Δ , which is a time fractional non-local reaction-diffusion equation.

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DFMA, Design Applications, Interaction Design, Rehabilitation Devices Design. 13 Life Science LS All areas of Life Science 14 Mathematics MA Numerical Analysis, Number Theory, Differential Equation, Fractional Calculus, Probability & Statistics, Mathematical Physics, Integral

Equations, Stochastic

A CLASS OF SUPERCRITICAL/CRITICAL SINGULAR ...

May 27, 2022 · calculus in order to make sense of the equations. The method of convex integration brings a completely new perspective in the field of (S)PDEs. If we try to solve (1.1) by classical PDE arguments we see the problem: formally by Schauder estimates the regularity of a solution to (1.1) is $B_{\gamma-1-\alpha-\kappa}^{\infty, \infty}$. Hence, only if $\gamma > 1 + \alpha + \kappa$ the ...

Annexure I (Syllabi) - Anna University

Calculus and Differential Equations: Partial derivatives – Jacobians – Taylor’s expansion ... Double and triple integrations and their applications – Gradient, Divergence, Curl and Laplacian – Green’s, Gauss divergence and Stoke’s theorem. ... fractional horsepower motors: permanent magnet and stepper motors. Power Systems: ...