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Computational Methods for Differential Equations

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Abstract: In this paper, we are concerned with the fractional order equations (1) with Hartree type $\dot{H}^{\frac{1}{2}}$ -critical nonlinearity and its equivalent integral equations (3). We first prove a regularity result which indicates that weak solutions are smooth (Theorem 1.2).

American Institute of Mathematical Sciences

Maxwell's equations are a set of partial differential equations that, together with the Lorentz force law, form the foundation of classical electromagnetism, classical optics, and electric circuits. The equations provide a mathematical model for electric, optical, and radio technologies, such as power generation, electric motors, wireless communication, lenses, radar etc. Maxwell's equations ...

Maxwell's equations - Wikipedia

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Existence of solution for some two-point boundary value fractional differential equations

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The two-dimensional J-integral was originally defined as $J = \int_{\Gamma} \hat{w} \cdot \hat{n} - \hat{t} \cdot \hat{u}$ (see Figure 1 for an illustration) where $W(x_1, x_2)$ is the strain energy density, x_1, x_2 are the coordinate directions, $t = [\sigma]n$ is the surface traction vector, n is the normal to the curve Γ , $[\sigma]$ is the Cauchy stress tensor, and u is the displacement vector.

J-integral - Wikipedia

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