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Computational Methods for Differential Equations

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International Journal of Applied Mathematics

Abstract: In this paper, we are concerned with the fractional order equations (1) with Hartree type $\dot{H}^{\frac{1\pm}{2}}$ -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

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Maxwell's equations - Wikipedia

The boundary element method (BEM) is a numerical computational method of solving linear partial differential equations which have been formulated as integral equations (i.e. in boundary integral form). including fluid mechanics, acoustics, electromagnetics (Method of Moments), fracture mechanics, and contact mechanics.

Boundary element method - Wikipedia

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