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Computational Methods for Differential Equations

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American Institute of Mathematical Sciences

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International Journal of Applied Mathematics

Abstract: We prove the uniqueness and finite-time existence of bounded-vorticity solutions to the 2D Euler equations having velocity growing slower than the square root of the distance from the origin, obtaining global existence for more slowly growing velocity fields.

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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

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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