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(2013) Error analysis of a fully discrete finite element variational multiscale method for time-dependent incompressible Navier-Stokes equations.

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The extended finite element method

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(XFEM) is a numerical technique based on the generalized finite element method (GFEM) and the partition of unity method (PUM). It extends the classical finite element method by enriching the solution space for solutions to differential equations with discontinuous functions.

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Finite Element Analysis (FEA) is a numerical method used to solve boundary value problems. A boundary value problem is mathematically represented as a system of differential equations where the solutions and derivatives are known at certain points (or boundaries). These solutions are

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described by boundary conditions.

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up to failure. The model is verified using the results from (Nabilah and Koh in KSCE J Civil Eng 21:2807-2813, 2017). The bond-slip interface for the longitudinal reinforcement is modeled in the finite element, as it is found that it ...

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(2020) Finite element error estimates in non-energy norms for the two-dimensional scalar Signorini problem. Numerische Mathematik 606. (2020) Finite element error estimates in  $L^2$  for regularized discrete approximations to the obstacle problem. Numerische Mathematik 144 :1, 133-156.

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analytical models. Different known finite element codes, based on 2D nodal finite element or 3D edge element, are used to analyze the magnetic field in a linear motor like device. The use of an analytical model gives interesting insight

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on interface errors problems in finite element analysis.

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Though less intuitive, the finite-element method has been chosen over the finite-difference method primarily because its use of triangular elements greatly

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