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Comparison of Finite-Element-Based State-Space Models for PM Synchronous Machines. Abstract:

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An interior permanent-magnet (PM) motor is modeled by a combined analytical-numerical approach, in which the relationships between the stator currents and flux linkages are identified with static finite-element (FE) analysis. In addition to the previous approaches using the current space vector as the state variable, new models are also developed using the flux-linkage space vector, which leads to ...

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The extended finite element method (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.

### **Finite element method - Wikipedia**

Comparison of finite element analysis to IEC-60287 for predicting underground cable ampacity. Abstract: The ampacity of underground power cable lines is limited by the maximal allowable temperature of the conductor. Normally the IEC 60287 standard is used for steady state ampacity

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calculation. The standard employs the concept of thermal equivalent circuit.

### **Comparison of finite element analysis to IEC-60287 for ...**

Comparison of Finite Difference and Finite Element Hydrodynamic Models Applied to the Laguna Madre Estuary, Texas. (December 1996) Karl Edward' McArthur, B.S., The University of Texas at Austin Chair of Advisory Committee: Dr. Ralph A. Wurbs iii The U.S. Geological Survey Surface Water Flow and Transport Model in Two-Dimensions

### **COMPARISON OF FINITE DIFFERENCE AND FINITE ELEMENT ...**

A comparison of finite element schemes for the incompressible Navier-Stokes equations. Kristian Valen-Sendstad, Anders Logg, Kent-Andre Mardal, Harish Narayanan, Mikael Mortensen. Pages 399-420. Simulation of transitional flows. Mikael Mortensen, Kent-Andre Mardal, Hans Petter Langtangen.

### **Automated Solution of Differential Equations by the Finite ...**

For the complete details of this comparison see Gray [9]. f244 W.H. Gray, NM. Schnurr, A comparison of the finite element and finite difference methods 2. Comparison of FEM and FDM In order to compare the FEM and FDM, two computer programs were developed. The only rule adhered to while evolving these programs was that they be written in the most efficient manner possible with respect to computer execution time for a given level of computational accuracy.

### **A comparison of the finite element and finite difference ...**

[en] We consider finite element models for high-temperature superconductors and compare two dual formulations, either magnetic-field conforming (H formulation) or magnetic-flux density conforming (A formulation), both with an E(J) power law. The accuracy and efficiency of the formulations are discussed on the basis of the shape of the ...

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## **Comparison of finite element formulations for HTS and ...**

The finite element method (FEM), or finite element analysis (FEA), is a computational technique used to obtain approximate solutions of boundary value problems in engineering. Boundary value problems are also called field problems. The field is the domain of interest and most often represents a physical structure.

## **Introduction to Finite Element Analysis (FEA) or Finite ...**

NCHRP 15-29 Appendix A ii 4.3.3.1 Finite Element Model 101 4.3.3.2 Materials 102 4.3.3.3 Loading and Boundary Condition 102 4.3.3.4 Results 102 4.3.4 60-in. Diameter HDPE Pipe 108 4.3.4.1 Finite Element Model 108 4.3.4.2 Materials 109 4.3.4.3 Loading and Boundary Condition 109 4.3.4.4 Results 111 4.3.5 Discussion 126 4.4 Comparison between the Mohr-Coulomb and Hardening-Soil Models in Three-

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