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Stockholm, Sweden) was used for this finite element analysis of the EIM in rat

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model. Electrode size and thickness were also modeled according to the actual size of the measuring electrodes. There were 60863 triangular 3D elements in the mesh.

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The course consists of theory and applications of Finite Element Method (FEM). This numerical technique, applied for solving partial differential equations, is popularly used by researchers and practicing engineers for design, development and optimization of electrical equipment and machines. A course of FEM is being included in many universities in India at UG and PG level.

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The present paper is concerned with the free vibration analysis of double-walled carbon nanotubes embedded in an elastic medium and based on Eringen's nonlocal elasticity theory. The effects of the transverse shear deformation and rotary inertia are included according to the Timoshenko beam theory. The governing equations of motion which are coupled with each other via the van der Waals ...

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Finite element formulation for the free vibration analysis ...

Finite-element analysis. FEA is well known as an efficient tool for electromagnetic analysis [63]. The software packages usually include a module for thermal analysis, which can be used for the ...

Electrical Machine Analysis using Finite Elements

FEM is best understood from its practical application, known as finite element analysis (FEA). FEA as applied in engineering is a computational tool for performing engineering analysis. It includes the use of mesh generation techniques for dividing a complex problem into small elements, ...

Finite element method - Wikipedia

"...a clear, detailed introduction to finite-element analysis...suitable for use as a text in a graduate electrical engineering course. It is also an excellent reference

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for all electrical engineers who want to understand finite-element analysis well enough to write or modify their own finite-element codes." IEEE Antennas and Propagation Magazine

Finite Elements for Electrical Engineers: Silvester, Peter ...

Thus, numerical techniques essentially based on the Finite Elements Method (FEM) have been used and has gradually become a standard in electrical machine modelling-design, analysis and optimisation. Electrical machines are electromagnetic devices with combined constrains such as complex geometries and several physical phenomena s. To model them,

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Background. Few finite element models (FEM) have been developed to describe the electric field, specific absorption rate (SAR), and the temperature distribution surrounding hepatic radiofrequency ablation probes. To date, a coupled finite

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element model that accounts for the temperature-dependent electrical conductivity changes has not been developed for ablation type devices.

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