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In this paper, a finite element code especially for micro-magnetostrictive actuators was developed. Two significant characteristics of the presented finite element code are: (1) the magnetostrictive hysteresis phenomenon is effectively taken into account; (2) intrinsic geometric feature of typical thin film structures of large length to thickness ratio, which makes it very difficult to ...

A Finite Element Analysis for Magnetostrictive Thin Film ...
Finite element model. The finite element model of the pelvis (Fig. 1) was created based on CT of a healthy male pelvis (29 years old, 185 cm, 69 kg), and imported into ANSYS 19.2 (Cybernet Systems ...

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What is Finite Element Analysis? Finite element analysis is a method for numerical solution of field problems. A field problem requires that we determine the spatial distribution of one or more dependent variables (e.g., temperature, displacement, stress). Mathematically, a field problem is described by differential equations or by an integral

PPT - The Finite Element Method in Mechanical Engineering ...
Finite Element Analysis (FEA) assists in the computation of the complex physical models in almost all engineering field. Consequently, it enable engineers to optimize the product designs and develop better product in a faster way.

Finite Element Analysis - IFluids Engineering
Finite element analysis (FEA) was performed on the upper and lower parts of the tool to examine its response due to the loads that act on it during operation. It was discovered from the analysis that the upper frame of the valve spring compressor experienced the highest von Mises stress of 59.77 MPa at the neck region, whilst the corresponding ...

Conceptual Design and Finite Element Fatigue Life Analysis ...
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 The field variables

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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
In this paper, we present finite element analysis made easy (FEAsy), a naturalistic environment for static finite element analysis. This tool allows users to transform, simulate, and analyze their finite element models quickly and easily through freehand sketching.

FEASY: A Sketch-based Tool for Finite Element Analysis | C ...
A finite element method (abbreviated as FEM) is a numerical technique to obtain an approximate solution to a class of problems governed by elliptic partial differential equations. Such problems are called as boundary value problems as they consist of a partial differential equation and the boundary conditions.