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the finite element method fem is a popular method for numerically solving differential equations arising in engineering and mathematical modeling typical problem areas of interest include the traditional fields of structural analysis heat transfer fluid flow mass transport and electromagnetic potential

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finite element analysis fea is the process of predicting an object s behavior based

on calculations made with the finite element method fem while fem is a mathematical technique fea is the interpretation of the results fem provides

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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

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6 3 finite element mesh depicting global node and element numbering as well as global degree of freedom assignments both degrees of freedom are fixed at node 1 and the second degree of freedom is fixed at node 7 145

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the finite element method is a systematic way to convert the functions in an infinite dimensional function space to first functions in a finite dimensional function space and then finally ordinary vectors in a vector space that are tractable with numerical methods

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in practice a finite element analysis usually consists of three principal steps 1 preprocessing the user constructs a model of the part to be analyzed in which the geometry is divided into a number of discrete subregions or elements connected at discrete points called nodes

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figure 1 the field variable e g temperature is probably described throughout the body by a set of partial differential equations that are impossible to solve mathematically instead we assume that the variable acts through or over each element in a predefined manner another key step in understanding the method

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finite element analysis was originally developed for analyzing complex structures it is currently used to analyze a variety of physical systems including heat transfer fluid mechanics magnetism etc however from an intuitive standpoint the basic ideas are most easily developed using solid mechanics concepts

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definition finite element analysis fea by kate brush finite element analysis fea is the use of calculations models and simulations to predict and understand how an object might behave under various physical conditions engineers use fea to find

vulnerabilities in their design prototypes

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