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General form of the
finite element method

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One chooses a grid for

Ω $\{\displaystyle$

$\Omega\}$. In the

preceding treatment,

the grid consisted of

triangles, but one...

Then, one chooses

basis functions. In our

discussion, we used

piecewise linear basis

functions, but it is also

common to...

Finite element method - Wikipedia

The finite element
method is one of the

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preeminent simulation
techniques for
obtaining solutions to
boundary-value
problems in

mathematical physics.
It has applications in a
variety of engineering
and scientific studies,
such as antennas,

radar, microwave
engineering, high-
speed/high-frequency
circuits, wireless

communication, electro-
optical engineering,
remote sensing,

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The finite element

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method (FEM) is a powerful simulation technique used to solve boundary-value problems in a variety of engineering circumstances. It has been widely used for analysis of electromagnetic fields in antennas, radar scattering, RF and microwave engineering, high-speed/high-frequency circuits, wireless communication, ...

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The finite element method (FEM) is used to compute such approximations. Take, for example, a function u that may be the dependent variable in a PDE (i.e., temperature, electric potential, pressure, etc.) The function u can be approximated by a function u_h using

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linear combinations of
basis functions
according to the
following expressions:

(1)

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Detailed Explanation of the Finite Element Method (FEM)

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Singiresu S. Rao -The
finite element method
is a numerical method
that can be used for
the accurate solution of

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complex engineering problems. Although the origins of the method can be traced to several centuries back, most of the computational details have been developed in mid-1950s, primarily in the context of the analysis of aircraft structures.

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Method(FEM) is a very excellent simulation technique because it can compute physical phenomena occurring in variety of objects with minimum distortion or modification of their original shapes.

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The transient nonlinear electromagnetic field is

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analyzed by the Finite
Element Method (FEM),
which is coupled with
nonlinear electronic
circuitry. The dynamic
movement of ...

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2010 Springer. Preface
This is a set of lecture
notes on finite
elements for the
solution of partial
differential equations.
The approach taken is

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mathematical in nature
with a strong focus on
the

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Brief History - The term
finite element was first
coined by clough in
1960. In the early
1960s, engineers used
the method for
approximate solutions
of problems in stress
analysis, fluid flow,

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heat transfer, and other areas. - The first book on the FEM by Zienkiewicz and Chung was published in 1967.

Finite Element Method -

Massachusetts Institute of Technology

the fast multipole method. Combined finite-discrete element method. Following the work by Munjiza and Owen, the combined

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finite-discrete element method has been further developed to various irregular and deformable particles in many applications including pharmaceutical tableting, packaging and flow simulations, and impact analysis.

Discrete element method - Wikipedia

This course is an introduction to the finite element method

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as applicable to a
range of problems in
physics and
engineering sciences.
The treatment is
mathematical, but only
for the purpose of
clarifying the
formulation.

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An isoparametric form
for finite element
approximation is used
along with quadrature
to evaluate integrals
that appear in the
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chapter also applies
the methods developed

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been widely used for
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in antennas, radar
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