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General form of the
finite element method
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...

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method - Wikipedia

The finite element method is one of the 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

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applications in the field
of electromagnetics.

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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
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etc.) The function u can be approximated by a function u_h using linear combinations of basis functions according to the following expressions:

(1)

Detailed Explanation of the Finite Element Method (FEM)

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is a numerical method that can be used for the accurate solution of 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
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finite element was first
coined by clough in
1960. In the early
1960s, engineers used
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approximate solutions
of problems in stress
analysis, fluid flow,
heat transfer, and
other areas. - The first
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was published in 1967.

Finite Element Method - Massachusetts Institute of Technology

the fast multipole
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method. Following the work by Munjiza and Owen, the combined 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

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This course is an introduction to the finite element method 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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