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... The Finite Element Method

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boundary conditions. Specify a set of basis functions that oomph-lib:

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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, heat transfer, and other areas.

- The first book on the FEM by

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published in 1967. Finite Element

Method 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 linear combinations of basis

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