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The Finite Element Method: Its Basis and Fundamentals

The finite element method is a systematic way to convert the functions

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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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powerful technique originally developed for numerical solution of complex problems in structural mechanics, and it remains the method of choice for complex systems. In the FEM, the structural system is modeled by a set of appropriate finite elements...

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mechanics - Wikipedia

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2.1 The Finite Element Method for a Model Problem 25. In other words $V_h;0$ contains all piecewise linears which are zero at $x=0$ and $x=1$. In terms of a basis function this means that a basis for $V_h;0$ is obtained by deleting the half hats ϕ_0 and ϕ_n from the usual set $\{\phi_j\}_{j=0}^n$ of hat functions spanning V_h .

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