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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 functions

according to the

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following expressions:

(1)

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Detailed Explanation

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traditional fields of structural analysis, heat transfer, fluid flow, mass transport, and electromagnetic potential. The FEM is a particular numerical method for solving partial differential equations in two or three space variables. To solve a problem, the FEM subdivides a large system into

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smaller, simpler parts
that are called fini

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MATLAB. Kwon, Y.,
Bang, H., Kreith, F.

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Raton: CRC Press, <https://doi.org/10.1201/9>

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interior portions of the problem domain where the problem is very complex, and the BEM is used for the exterior portion that can extend to infinity.

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nature with a strong
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underlying
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