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covering the fundamentals of linear finite element analysis (FEA) This book constitutes the first volume in a two-volume set that introduces readers to the theoretical foundations and the implementation of the finite element method (FEM). The first volume focuses on the use of the method for linear problems.

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teach in the Civil and Environmental
Engineering department of Virginia Tech.

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The finite element method (FEM), or
finite element analysis (FEA), is a
computational technique used to obtain
approximate solutions of boundary value

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element of size $dx \times dy$ makes this a finite element.

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The fundamentals of the Finite Element

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