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1.5 General Description of the Finite Element Method 9 1.6 One-Dimensional Problems with Linear Interpolation Model 12 1.7 One-Dimensional Problems with Cubic Interpolation Model 24 1.8 Derivation of Finite Element Equations Using a Direct Approach 28 1.9 Commercial Finite Element Program Packages 40 1.10 Solutions Using Finite Element Software 40

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The finite element method is used in the field of solid and structural mechanics. Various types of problems solved by the finite element method in this field include the elastic, elastoplastic, and viscoelastic analysis of trusses, frames, plates, shells, and solid bodies.

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