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Bathe has made fundamental contributions in the finite element analysis of structures, heat transfer, field problems, CFD, and fluid-structure interactions. These contributions are widely used in commercial software codes. Specifically, the following contributions for reliable, accurate and efficient finite element analyses are widely employed:

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The finite element method is the ideal tool for solving complex static and dynamic problems in engineering and the sciences. Nonlinear analysis models kinematic and/or materially nonlinear effects. In these videos, Professor K. J. Bathe, a researcher of world renown in the field of finite element analysis, builds upon the concepts developed in his previous video course on Linear Analysis .

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M. Kojic and K.J. Bathe, "Studies of Finite Element Procedures Stress Solution of a Closed Elastic Strain Path with Stretching and Shearing using the Updated Lagrangian Jaumann Formulation", Computers & Structures, 26 (1/2), 175-179, 1987 (.pdf)

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