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computer program. However, to indicate how the exercises in which a finite element program is to be used might be solved, we also include the solutions to three such exercises. For these studies, the computer programs ADINA (for structural analysis) and ADINA CFD (for fluid flow analysis) have been used. These finite element programs are part of the ADINA System, see www.adina.com.

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Major contributions. 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.

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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 (l/2), 175-179, 1987

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Lecture 10: Solution of Nonlinear Static FE Equations I ...
Professor Klaus-Jürgen Bathe See: ... Solution techniques for linear and nonlinear dynamic response of structures and fluids. Fundamental theoretical contributions. ... K. J. Bathe, Finite Element Procedures in Engineering Analysis, Prentice-Hall, 1982. K. J. Bathe, Finite Element Procedures, Prentice Hall, 1996. ...

Professor Klaus-Jürgen Bathe - Shell Buckling
Bathe have offered fundamental designs of finite element programs that have been used by thousands of students in graduate theses and many research and commercial finite element systems. The book 'Finite Element Procedures' by Professor Bathe has been widely accepted as a standard reference.

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