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By Mathematics, Claes Johnson

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Claes Johnson, Numerical Solutions of Partial Differential Equations by the Finite Element Method, Dover Books on Mathematics, 2009.

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Foundations of Computational Mathematics [Major book at the interface of finite elements and matrix R.E. Showalter: Hilbert Space Methods for Partial Differential Equations, A.N. Kolmogorov & S.V. Fomin: Introductory Real Analysis, Dover, 1970. Ordinary differential equations (theory and numerical solution).

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Numerical Methods for Partial Differential Equations: An Introduction -

[67] EUVRARD, D., R ?esolution num ?erique des ?equations aux d ?eriv ?ees partielles on numerical solution of PDEs (online), Chapter 1, Finite Difference Methods for Elliptic B., Displacement and equilibrium models in the finite element method, in: Stress Parabolic Type, Dover Books on Mathematics, New York, 2008.

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H. Levy and F. Lessman, Finite Difference Equations, Dover Science, New York, 1992. Mayers, Numerical Solution of Partial Differential Equations: An Introduction, Ordinary and Partial Differential Equations (Pure and Applied Mathematics), W. F. Ames, Numerical Methods for Partial Differential Equations, 3rd edition,

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