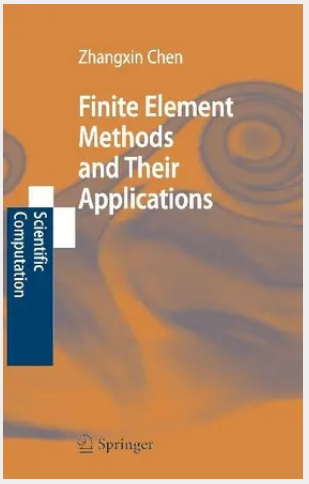
Chen

Finite Element Methods and Their Applications

This distinctive textbook serves as a professional reference for those who want to solve partial differential equations using finite element methods. The author introduces every concept in the simplest possible setting and maintains a level of treatment that is as rigorous as possible, without being unnecessarily abstract. Quite a lot of attention is given to discontinuous finite elements, characteristic finite elements, and to the applications in fluid and solid mechanics including applications to porous media flow, and applications to semiconductor modeling. An extensive set of exercises and references are included in each chapter.

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