



Finite Element Method: Volume 1, Fifth Edition

O. C. Zienkiewicz, R. L. Taylor

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In the years since the fourth edition of this seminal work was published, active research has further developed the Finite Element Method into the pre-eminent tool for the modelling of physical systems. Written by the pre-eminent professors in their fields, this new edition of the Finite Element Method maintains the comprehensive style of the earlier editions and authoritatively incorporates the latest developments of this dynamic field. Expanded to three volumes the book now covers the basis of the method and its application to advanced solid mechanics and also advanced fluid dynamics. Volume 1: The Basis is intended as a broad overview of the Finite Element Method. Aimed at undergraduates, postgraduates and professional engineers, it provides a complete introduction to the method.

Volume 2 and Volume 3 of the Finite Element Method cover non-linear solid and structural mechanics and fluid dynamics respectively. Both are essential reading for postgraduate students and professional engineers working in these disciplines.

New material on recovery, accuracy, error estimates and adaptivity. Increased coverage of mixed and hybrid methods including the Discontinuous Galerkin and Enhanced Strain Methods. Expanded chapter on incompressible behaviour and stabilization procedures.

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