



Finite Element Methods for Flow Problems

Jean Donea, Antonio Huerta

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In recent years there have been significant developments in the development of stable and accurate finite element procedures for the numerical approximation of a wide range of fluid mechanics problems. Taking an engineering rather than a mathematical bias, this valuable reference resource details the fundamentals of stabilised finite element methods for the analysis of steady and time-dependent fluid dynamics problems. Organised into six chapters, this text combines theoretical aspects and practical applications and offers coverage of the latest research in several areas of computational fluid dynamics.

- * Coverage includes new and advanced topics unavailable elsewhere in book form
- * Collection in one volume of the widely dispersed literature reporting recent progress in this field
- * Addresses the key problems and offers modern, practical solutions

Due to the balance between the concise explanation of the theory and the detailed description of modern practical applications, this text is suitable for a wide audience including academics, research centres and government agencies in aerospace, automotive and environmental engineering.

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