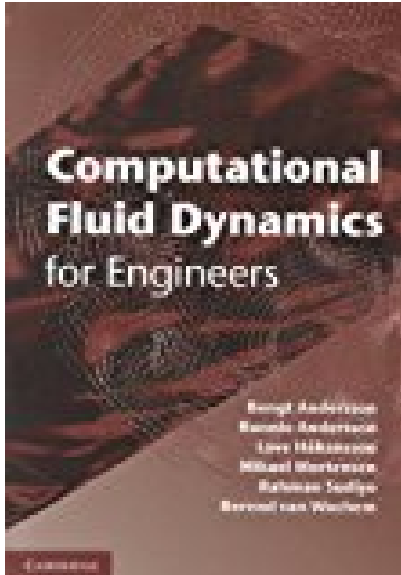


Computational Fluid Dynamics for Engineers



BOOK DETAILS

- Author : Bengt Andersson
- Pages : 202 Pages
- Publisher : Cambridge University Press
- Language : English
- ISBN : 1107018951

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BOOK SYNOPSIS

This book introduces a wide range of Computational Fluid Dynamics (CFD) methods used in the aerospace industry to solve engineering problems. Its format is arranged so that students and practicing engineers can understand the fundamental principles used in CFD, with sample computer programs for the solution of model problems. It begins with the conservation equations of fluid mechanics, including those relevant to turbulence models and continues with descriptions of numerical methods for the solution of parabolic, elliptic and hyperbolic forms. The methods are then applied in detail to solve equations for inviscid incompressible flows, boundary-layer flows, stability and transition calculations, inviscid compressible flows, and incompressible viscous flows and compressible viscous flows. A chapter is devoted to grid generation techniques for structured and unstructured grid methods, which are an integral part of modern CFD methods. The emphasis is on two-dimensional equations in order to present the material in a modest sized book. Source codes for selected problems are given so that the reader can understand how those methods are implemented in FORTRAN and C languages, while exercises provide more hands-on experience

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