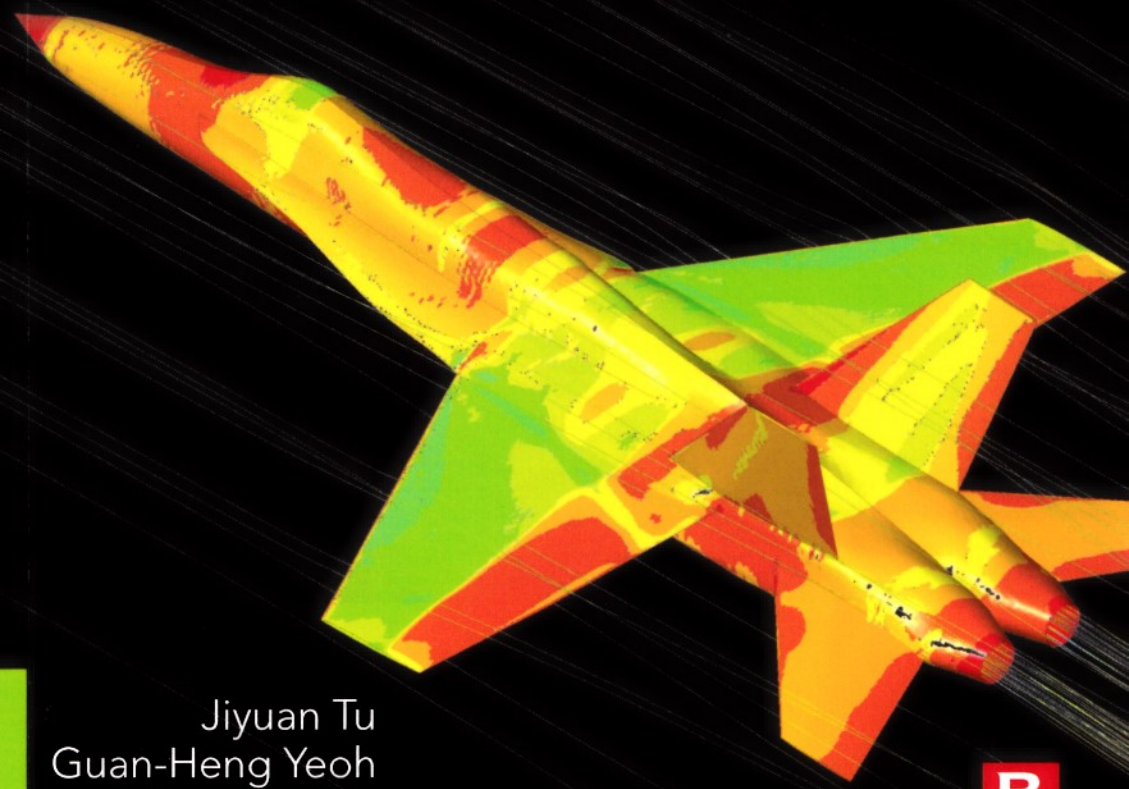
Computational Fluid Dynamics

THIRD EDITION

A Practical Approach



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Additional material available online.

THIRD EDITION

Computational Fluid Dynamics
A Practical Approach

Jiyuan Tu, Guan-Heng Yeoh, and Chaoqun Liu

An introduction to understanding CFD and using CFD codes to solve engineering problems, designed for the CFD user rather than CFD developer.

Computational Fluid Dynamics: A Practical Approach is an introduction to CFD fundamentals and commercial CFD software to solve engineering problems, designed for the wide variety of engineering students new to CFD and for practicing engineers learning CFD for the first time. Combining an appropriate level of mathematical background, worked examples, computer screenshots, and step-by-step processes, this book walks the reader through modelling and computing, as well as interpreting CFD results. This new edition has been updated throughout, with new content and improved figures, examples, and problems.

Key Features:
- Includes a new chapter on practical guidelines for mesh generation.
- Provides full coverage of high-pressure fluid dynamics and meshless approach to provide a broader overview of the application areas where CFD can be used.
- Online resources include a new bonus chapter featuring detailed case studies and the latest developments in CFD.

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