



Engineering Fluid Dynamics: An Interdisciplinary Systems Approach

Clement Kleinstreuer

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This text provides a thorough treatment of the fundamental principles of fluid mechanics and convection heat transfer and shows how to apply the principles to a wide variety of fluid flow problems. The focus is on incompressible viscous flows with special applications to non-Newtonian fluid flows, turbulent flows, and free-forced convection flows. A special feature of the text is its coverage of generalized mass, momentum, and heat transfer equations, Cartesian tensor manipulations, scale analyses, mathematical modeling techniques, and practical solution methods. The final chapter is unique in its case-study approach, applying general modeling principles to analyze nonisothermal flow systems found in a wide range of engineering disciplines. The author provides numerous end-of-chapter problems, solutions, and mathematical aids to enhance the reader's understanding and problem-solving skills.

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