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Stochastic Lagrangian Modeling for Large Eddy Simulation of Dispersed Turbulent Two-Phase Flows

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About the ebook

This e-book explains the use of stochastic tools to enhance the accuracy of the Eulerian-Lagrangian large eddy simulation of particle-laden turbulent flows of practical interest. The book should be a useful resource for chemical, mechanical, petroleum and environmental engineering postgraduates and researchers interested in applying tractable yet powerful numerical tools to solve problems involving multiphase flows.

Contents

- Large Eddy Simulation of Single-Phase Flow
- Large Eddy Simulation of Particle-Laden Flows
- Lagrangian Stochastic Modeling of Subfilter Motion for LES of Particle- Laden Flow
- Large Eddy Simulation of Solid Particle Dispersion in a Downward Turbulent Pipe Flow
- Large Eddy Simulation of Liquid Particle Deposition in a Turbulent 90° Bend Flow
- Expiratory Droplet Dispersion in a Mechanically Ventilated Enclosure
- Epilogue

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