



Turbulent Jets and Plumes: A Lagrangian Approach (Hardback)

By Joseph Hun-wei Lee, Vincent Chu

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English . Brand New Book. Jets and plumes are shear flows

produced by momentum and buoyancy forces. Examples

include smokestack emissions, fires and volcano eruptions,

deep sea vents, thermals, sewage discharges, thermal effluents

from power stations, and ocean dumping of sludge.

Knowledge of turbulent mixing by jets and plumes is important

for environmental control, impact and risk assessment.

Turbulent Jets and Plumes introduces the fundamental

concepts and develops a Lagrangian approach to model these

shear flows. This theme persists throughout the text, starting

from simple cases and building towards the practically

important case of a turbulent buoyant jet in a density-stratified

crossflow. Basic ideas are illustrated by ample use of flow

visualization using the laser-induced fluorescence technique.

The text includes many illustrative worked examples,

comparisons of model predictions with laboratory and field

data, and classroom tested problems. An interactive PC-based

virtual-reality modelling software (VISJET) is also provided.

Engineering and science students, researchers and

practitioners may use the book both as an introduction to the

subject and as a reference in hydraulics and environmental

fluid mechanics.



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Reviews

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