

N.I. Kolev

Multiphase Flow Dynamics 2

Thermal and Mechanical Interactions

2nd Edition

Multiphase Flow Dynamics 2 Mechanical Interactions

Nikolay Ivanov Kolev

Multiphase Flow Dynamics 2 Mechanical Interactions:

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4 Nikolay Ivanov Kolev, 2011-09-24 The present Volume 4 of the successful monograph package Multiphase Flow Dynamics is devoted to selected Chapters of the multiphase fluid dynamics that are important for practical applications but did not find place in the previous volumes. The state of the art of the turbulence modeling in multiphase flows is presented. As introduction some basics of the single phase boundary layer theory including some important scales and flow oscillation characteristics in pipes and rod bundles are presented. Then the scales characterizing the dispersed flow systems are presented. The description of the turbulence is provided at different level of complexity simple algebraic models for eddy viscosity simple algebraic models based on the Boussinesq hypothesis modification of the boundary layer share due to modification of the bulk turbulence modification of the boundary layer share due to nucleate boiling. The role of the following forces on the mathematical description of turbulent flows is discussed the lift force the lubrication force in the wall boundary layer and the dispersion force. A pragmatic generalization of the $k - \epsilon$ models for continuous velocity field is proposed containing flows in large volumes and flows in porous structures. A Methods of how to derive source and sinks terms for multiphase $k - \epsilon$ models is presented. A set of 13 single and two phase benchmarks for verification of $k - \epsilon$ models in system computer codes are provided and reproduced with the IVA computer code as an example of the application of the theory. This methodology is intended to help other engineers and scientists to introduce this technology step by step in their own engineering practice. In many practical application gases are solved in liquids under given conditions released under other conditions and therefore affecting technical processes for good or for bad. Useful information on the solubility of oxygen, nitrogen, hydrogen and carbon dioxide in water under large interval of pressures and temperatures is collected and appropriate mathematical approximation functions are provided. In addition methods for the computation of the diffusion coefficients are described. With this information solution and dissolution dynamics in multiphase fluid flows can be analyzed. For this purpose the non equilibrium absorption and release on bubble droplet and film surfaces under different conditions is mathematically described. A systematic set of internally consistent state equations for diesel fuel gas and liquid valid in broad range of changing pressure and temperature is provided. This new second edition includes various updates, extensions, improvements and corrections. In many practical application gases are solved in liquids under given conditions released under other conditions and therefore affecting technical processes for good or for bad. Useful information on the solubility of oxygen, nitrogen, hydrogen and carbon dioxide in water under large interval of pressures and temperatures is collected and appropriate mathematical approximation functions are provided. In addition methods for the computation of the diffusion coefficients are described. With this information solution and dissolution dynamics in multiphase fluid flows can be analyzed. For this purpose the non equilibrium absorption and release on bubble droplet and film surfaces under different conditions is mathematically described. A systematic set of internally consistent state equations for diesel fuel gas and liquid valid in broad range of changing pressure and temperature is provided. This new second edition includes various updates, extensions,

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