



On modeling and numerical computation of industrial disperse two-phase flow with the Euler-Lagrange approach

By Santiago Laín Beatove

Shaker Verlag Jun 2010, 2010. Buch. Book Condition: Neu. 21x14.8x cm. Neuware - In order to reliably predict technical and industrial processes, which frequently involve two- or multiphase flows, robust numerical methods as well as improved mathematical models are needed. However, such models are complex and not amenable of analytical solution, and they must be solved numerically adequately implemented in Computational Fluid Dynamics simulation tools. Therefore, validation of multiphase flow models is the key for new developments and advances in industrial processes and equipment. Besides, the overall flow structure and the integral relevant process parameters, e.g. pressure drop or separation efficiency, are strongly affected by the elementary processes occurring on the scale of the particles. As a consequence, a detailed modeling and validation of these micro-scale phenomena is required when anticipating reliable numerical predictions. The main objective of this work is the detailed validation of models of elementary processes occurring in turbulent two-phase flow against careful experiments, providing information of as many variables as possible. Some of these experiments have been initiated or performed in the Chair of Mechanical Processes of Martin-Luther Universität Halle-Wittenberg during the stay of the author, and others have been chosen from the open literature. From...



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