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Mixed or multiphase flows of solid/liquid or solid/gas are commonly found in many industrial fields, and their behavior is complex and difficult to predict in many cases. The use of computational fluid dynamics (CFD) has emerged as a powerful tool for the understanding of fluid mechanics in multiphase reactors, which are widely used in the chemical, petroleum, mining, food, beverage and pharmaceutical industries. This book enables scientists and engineers to understand the basis and application of CFD in multiphase flow, explains how to use the technique, when to use it and how to interpret the results and apply them to improving applications in process engineering and other multiphase application areas including the pumping, automotive and energy sectors.