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Multiphase Flows in Engineering Applications

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Message from the Guest Editor

Multiphase flows may comprise various states of matter, e.g., gas and solid in fluidisation; gas and liquid in bubble column; and gas, liquid, and solid in airlift slurry bed. They are present in nature and a wide range of engineering applications. Examples include biomass pyrolysis and gasification, liquid fuel injection systems, fire suppression systems, agricultural sprays, oil recovery, and spray drying of food products. Due to their importance in different applications, such flows have been topics of considerable interest in recent years. Various advanced numerical modelling and measurement techniques have been developed to enhance the understanding of such complex multiphysics and multiscale flows where interactions of turbulence, interface physics, phase change, and chemical reactions are important.

The purpose of this Special Issue is to collect state-of-the-art results related to the modelling and experimental studies of multiphase flows in different engineering applications in energy sector, biomedical and pharmaceutical industry, chemical process, nuclear industry, power plants, and nanofluid technologies.



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Special Issue



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Message from the Editor-in-Chief

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