Special Issue

Numerical Calculation and Experimental Measurement in Multiphase Flow

Message from the Guest Editors

The topic of multiphase flows is receiving significant attention due to their many applications in nature and engineering. The most common class of multiphase flows are two-phase flows, and these include gas-liquid flow, gas-solid flow, liquid-liquid flow and liquid-solid flow. These flows are the most studied, particularly in the context of the industry. Three common approaches are mainly used to study multiphase flows: theoretical analysis, experiments and numerical methods. Due to the rapid development of computers, computational fluid dynamics (CFD) methods have been widely used in recent years as these methods have the advantages of safety, a high efficiency and low cost. This Special Issue on "Numerical Calculation and Experimental Measurement in Multiphase Flow" seeks high-quality research that focuses on the latest novel CFD methods and experiments in two-phase flows for various applications. Topics include, but are not limited to:

- Heat and mass transfer in porous media;
- Particle dispersion and deposition;
- Melting of phase-change material(PCM);
- Non-Newtonian fluids;
- Two-phase flows.

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