

NUMERICAL SIMULATION OF MULTIPHASE FLOWS AND APPLICATIONS IN AEROSPACE ENGINEERING

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ABSTRACT

The primary goal of the mini-symposium is to promote research and developmental activities in numerical simulation of multiphase flows and applications in aerospace engineering, which not only concerns with the mathematical and physical modelling and developing of numerical algorithms in applied and computational mathematics, but also connects tightly with many application fields of aeronautics and astronautics. In this mini-symposium, innovative ideas and scientific information interchange between researchers, developers, engineers, students, and practitioners will be promoted. As the numerical simulation of multiphase flow has been widely used in the field of aerospace, such as the ice freezing process on aircraft, the parachutes moving process, etc. Thus, this mini-symposium mainly focus on the following research aspects: Multi-phase flow modelling; Heat and mass transfer modelling; Numerical simulation of ice accretion on aircraft; Advanced Icing protection technologies; Numerical simulation of parachute, Particle movement and erosion and others.

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