Special Issue

Jet Flows

Message from the Guest Editors

Since jet flows have a wide range of engineering applications, they take various forms, including liquid, gas, plasma, a mixture of several phases, laminar/turbulent flow, compressible/incompressible flow, subsonic/supersonic flow, and so on. Jet flows cause various interesting phenomena, such as, in a gas-phase jet, the oscillation and sound generation resulting from several complicated mechanisms such as instability in the shear layer, vortex generation and collapse, and vortex/wall or vortex/shockwave interaction; in a liquid or gas–liquid two-phase jet, a change in phase from liquid to gas or vice versa, occasionally resulting in unstable phenomena. Various applications of jet flows are being considered in aerospace engineering, such as propulsion, injector, ejector, cooling, heating, atomization, and so on. The scales of jet flows appearing in aerospace engineering range from micro to macro.

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