



High Speed Flows, 2nd Edition

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Message from the Guest Editors

Dear Colleagues,

High-speed gas flows occur during the movement of aircrafts, rockets, descent vehicles, as well as in combustion chambers, nozzles and in many other technological applications. High-speed flows are characterized by a complex shock–vortex structure and the presence of large gradients of gas parameters due to the emerging shock waves, areas of shear deformations and the possible development of gas-dynamic instabilities. This Special Issue of *Fluids* is focused on the recent advances in the numerical and experimental modeling of high-speed flows. The planned topics include (but are not limited to) the following areas: supersonic/hypersonic flows, flow control, shock waves, turbulence, vortices and vortex structures, boundary layers, heat fluxes, gas-dynamic instabilities.

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