



Transonic Flow (2nd Edition)

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Transonic flow research has been of critical importance since the development of high-speed propeller aeroplanes and turbojet engines in the mid-1940s. The transonic flow regime has been, and remains, a challenge both for computational prediction and experimental simulation. The close coupling of shock waves, arising from the compressibility of air, and the effects of viscous flow on aircraft surfaces lead to highly unsteady and complicated flows that often involve detrimental flow separations. These can result in unsteady loading, potentially causing structural vibrations of aircraft components. An understanding of unsteady transonic flow is therefore fundamental to the safe design of high-speed aircraft.





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