Special Issue

Transonic Flow (2nd Edition)

Message from the Guest Editor

Transonic flow research has been of critical importance since the development of high-speed propellor 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.

Guest Editor

Prof. Dr. Simon Prince
Department of Aerospace Engineering, Cranfield University, Cranfield MK43 0AL, UK

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Aerospace
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
aerospace@mdpi.com

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Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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