



Hypersonic Flows for Reentry Problems: Volume I: Survey Lectures and Test Cases Analysis Proceedings of Workshop Held in Antibes, France, 22-25 January 1990

By -

Springer. Paperback. Condition: New. 248 pages. Dimensions: 9.5in. x 6.7in. x 0.6in. One of the most challenging problems of modern engineering is undoubtedly the prediction of hypersonic flows around space vehicles in reentry conditions. Indeed, the difficulties are numerous: first of all, these flows are very difficult to model, since very complex physical and chemical phenomena take place during the reentry phase; secondly, temperature, velocity and enthalpy are very high and densities are very low, making the reentry process very difficult to reproduce in ground-based experiments. The past three decades have seen important efforts in computational fluid dynamics relying on the use of supercomputers to simulate these very complicated flows. The numerical simulation based on imperfect models and methods which were essentially designed for transonic and supersonic flows has still a long way to go in order to be able to predict these hypersonic reentry flows very accurately. This situation has motivated very strong international cooperative efforts with, as the most visible consequences, the Europe/United States Short Courses on Hypersonics, which were held in Paris, in 1987 1, 2, Colorado Springs in 1989 3, and Aachen in 1990 3. The workshop on Hypersonics whose results are presented and...



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