

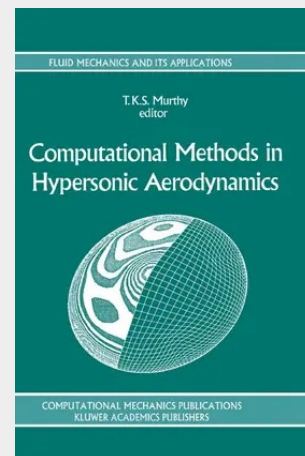
Computational Methods in Hypersonic Aerodynamics

This book contains chapters written by some eminent scientists and researchers on Computational Methods in Hypersonic Aerodynamics and forms a natural sequel to the earlier publications on Computational Methods in Potential Flow (1986) and Computational Methods in Viscous Aerodynamics (1990).

In this book, the earlier attempts at the solution of the highly nonlinear Navier-Stokes equations are extended to the aerothermodynamics of flow in the hypersonic regime, including the effects of viscosity on the physical and chemical processes of high-temperature nonequilibrium flow at very high speeds, such as vibrational excitation, dissociation and recombination, ionization and radiation, as well as real gas effects and the effects of high temperature and low density.

The book has been prepared as a valuable contribution to the state-of-the-art on computational methods in hypersonic aerodynamics. All the chapters have been written by eminent scientists and researchers well known for their work in this field.

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