



High Enthalpy Gas Dynamics

Ethirajan Rathakrishnan

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This is an introductory level textbook which explains the elements of high temperature and high-speed gas dynamics.

- written in a clear and easy to follow style, the author covers all the latest developments in the field including basic thermodynamic principles, compressible flow regimes and waves propagation in one volume
- covers theoretical modeling of High Enthalpy Flows, with particular focus on problems in internal and external gas-dynamic flows, of interest in the fields of rockets propulsion and hypersonic aerodynamics
- High enthalpy gas dynamics is a compulsory course for aerospace engineering students and this book is a result of over 25 years' teaching by the author
- accompanying website includes a Solutions Manual for exercises listed at the end of each chapter, plus lecture slides



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