

Elements Of Gas Dynamics

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This chapter presents the general features of traditional gas dynamics, deduced from the ideal gas model assuming no reaction and constant specific heats. Examples are given including one-dimensional isentropic flows, shock waves, and boundary layers. In the framework of these examples, various flow configurations are considered such as expanding flows in nozzles, kinematics of shock waves, and boundary layers with and without pressure gradient, and turbulent flows.

Elements of Gas Dynamics - Oxford Scholarship

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The chapter on Thermodynamics of Fluid Flow reviews the concept of energy which plays an important role in both high temperature flows and perfect gas flows. The chapter on Wave Propagation describes the waves, namely the Mach waves, compression waves and expansion waves, which prevail in all gas dynamic streams.

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