

Fundamentals Of Gas Dynamics Zucker Solution

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provides all necessary equations tables and charts as well as self tests included chapters cover reaction propulsion systems and real gas effects written and organized in a manner that makes it accessible for self learning

the subject of compressible flow or gas dynamics deals with the thermo fluid dynamic problems of gases and vapours it is now an important part of the undergraduate and postgraduate curricula fundamentals of compressible flow covers this subject in fourteen well organised chapters in a lucid style a large mass of theoretical material and equations has been supported by a number of figures and graphical depictions author s sprawling teaching experience in this subject and allied areas is reflected in the clarity and systematic and logical presentation salient features begins with basic definitions and formulas separate chapters on adiabatic flow isentropic flow and rate equations li includes basics of the atmosphere and measuring techniques separate sections on wind tunnels laser techniques hot wires and flow measurement discusses applications in aircraft and rocket propulsion space flights and pumping of natural gas contains large number of solved and unsolved problems the present edition has an additional chapter 14 on miscellaneous problems in compressible flow gas dynamics this is designed to support the tutorials practice exercises and examinations problems have been specially chosen for students and engineers in the areas of aerospace chemical gas and mechanical engineering

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