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**GAS DYNAMICS, Seventh Edition** RATHAKRISHNAN, E., 2020-07-01 This revised and updated seventh edition continues to provide the most accessible and readable approach to the study of all the vital topics and issues associated with gas dynamic processes. At every stage the physics governing the process, its applications and limitations are discussed in detail. With a strong emphasis on the basic concepts and problem solving skills, this text is suitable for a course on Gas Dynamics, Compressible Flows, High speed Aerodynamics at both undergraduate and postgraduate levels in aerospace engineering, mechanical engineering, chemical engineering and applied physics. The elegant and concise style of the book, along with illustrations and worked out examples, makes it eminently suitable for self study by students and also for scientists and engineers working in the field of gas dynamics in industries and research laboratories. The computer program to calculate the coordinates of contoured nozzle with the method of characteristics has been given in C language. The program listing along with a sample output is given in the Appendix. **NEW TO THE EDITION** A new chapter on the Power of Compressible Bernoulli Equation. Extra chapter end examples in Chapter 5. Additional exercise problems in Chapters 5, 6, 7 and 8. **KEY FEATURES** Concise coverage of the thermodynamic concepts to serve as a revision of the background material. Introduction to measurements in compressible flows and optical flow visualization techniques. Introduction to rarefied gas dynamics and high temperature gas dynamics. Solutions Manual for instructors containing the complete worked out solutions to chapter end problems. In depth presentation of potential equations for compressible flows, similarity rule and two dimensional compressible flows. Logical and systematic treatment of fundamental aspects of gas dynamics, waves in the supersonic regime and gas dynamic processes. **TARGET AUDIENCE** BE, B Tech, Mechanical Engineering, Aeronautical Engineering, ME, M Tech, Thermal Engineering, Aeronautical Engineering. **Applied Gas Dynamics** Ethirajan Rathakrishnan, 2010-10-04 In *Applied Gas Dynamics*, Professor Ethirajan Rathakrishnan introduces the high tech science of gas dynamics from a definition of the subject to the three essential processes of this science, namely the isentropic process, shock and expansion process, and Fanno and Rayleigh flows. The material is presented in such a manner that beginners can follow the subject comfortably. Rathakrishnan also covers the theoretical and application aspects of high speed flows in which enthalpy change becomes significant. Covers both theory and applications. Explains involved aspects of flow processes in detail. Provides a large number of worked through examples in all chapters. Reinforces learning with concise summaries at the end of every chapter. Contains a liberal number of exercise problems with answers. Discusses ram jet and jet theory, unique topics of use to all working in the field. Classroom tested at introductory and advanced levels. Solutions manual and lecture slides available for instructors. *Applied Gas Dynamics* is aimed at graduate students and advanced undergraduates in Aerospace Engineering and Mechanical Engineering who are taking courses such as Gas Dynamics, Compressible Flows, High Speed Aerodynamics, Applied Gas Dynamics, Experimental Aerodynamics and High Enthalpy Flows. Practicing engineers and

researchers working with high speed flows will also find this book helpful Lecture materials for instructors available at [http www wiley com go gasdyn](http://www.wiley.com/go/gasdyn)

**Applied Gas Dynamics** Ethirajan Rathakrishnan, 2019-02-25 A revised edition to applied gas dynamics with exclusive coverage on jets and additional sets of problems and examples The revised and updated second edition of Applied Gas Dynamics offers an authoritative guide to the science of gas dynamics Written by a noted expert on the topic the text contains a comprehensive review of the topic from a definition of the subject to the three essential processes of this science the isentropic process shock and expansion process and Fanno and Rayleigh flows In this revised edition there are additional worked examples that highlight many concepts including moving shocks and a section on critical Mach number is included that helps to illuminate the concept The second edition also contains new exercise problems with the answers added In addition the information on ram jets is expanded with helpful worked examples It explores the entire spectrum of the ram jet theory and includes a set of exercise problems to aid in the understanding of the theory presented This important text Includes a wealth of new solved examples that describe the features involved in the design of gas dynamic devices Contains a chapter on jets this is the first textbook material available on high speed jets Offers comprehensive and simultaneous coverage of both the theory and application Includes additional information designed to help with an understanding of the material covered Written for graduate students and advanced undergraduates in aerospace engineering and mechanical engineering Applied Gas Dynamics Second Edition expands on the original edition to include not only the basic information on the science of gas dynamics but also contains information on high speed jets

**Gas Tables (Revised)** E. Rathakrishnan, 2004-03

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*High Enthalpy Gas Dynamics* Ethirajan Rathakrishnan, 2015-06-29 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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Gas Dynamics George Turrell, 1997-09-09 Wie funktioniert ein Gaslaser Was ist eine Druckwelle Diese und unz hlige

andere Fragen lassen sich mit Hilfe der Dynamik der Gase beantworten die der Autor hier erstmals anwendungsbezogen aufbereitet Band I umfaßt notwendige theoretische Voraussetzungen wie die kinetische Gastheorie die Molek lstatistik und Transportph nomene w hrend Band II auf dieser Grundlage reale Vorg nge erkl rt F r alle Studenten die mehr lernen wollen als graue Theorie

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