Analytical Dynamics Haim Baruh Solution Manual

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Standard Handbook of Biomedical Engineering and Design Myer Kutz 2003 THE HANDBOOK THAT BRIDGES THE GAP BETWEEN ENGINEERING PRINCIPLES AND BIOLOGICAL SYSTEMS The focus in the "Standard Handbook of Biomedical Engineering and Design" is on engineering design informed by description and analysis using engineering language and methodology. Over 40 experts from universities and medical centers throughout North America, the United Kingdom, and Israel have produced a practical reference for the biomedical professional who is seeking to solve a wide range of engineering and design problems, whether to enhance a diagnostic or therapeutic technique, reduce the cost of manufacturing a medical instrument or a prosthetic device, improve the daily life of a patient with a disability, or increase the effectiveness of a hospital department. Heavily illustrated with tables, charts, diagrams, and photographs, most of them original, and filled with equations and useful references, this handbook speaks directly to all practitioners involved in biomedical engineering, whatever their training and areas of specialization. Coverage includes not only fundamental principles, but also numerous recent advances in this fast moving discipline. Major sections include: * Biomedical Systems Analysis * Mechanics of the Human Body * Biomaterials * Bioelectricity * Design of Medical Devices and Diagnostic Instrumentation * Engineering Aspects of Surgery * Rehabilitation Engineering * Clinical Engineering The "Handbook" offers breadth and depth of biomedical engineering design coverage unmatched in any other general reference.

Engineering Dynamics Jerry Ginsberg 2008 A modern vector oriented treatment of classical dynamics and its application to engineering problems.

Heat Transfer Gregory Nellis 2009 This textbook provides engineers with the capability, tools and confidence to solve real-world heat transfer problems.

Advanced Dynamics of Mechanical Systems Federico Cheli 2015-05-29 This book introduces a general approach for schematization of mechanical systems with rigid and deformable bodies. It proposes a systems approach to reproduce the interaction of the mechanical system with different force fields such as those due to the action of fluids or contact forces between bodies, i.e., with forces dependent on the system states, introducing the

concepts of the stability of motion. In the first part of the text mechanical systems with one or more degrees of freedom with large motion and subsequently perturbed in the neighborhood of the steady state position are analyzed. Both discrete and continuous systems (modal approach, finite elements) are analyzed. The second part is devoted to the study of mechanical systems subject to force fields, the rotor dynamics, techniques of experimental identification of the parameters and random excitations. The book will be especially valuable for students of engineering courses in Mechanical Systems, Aerospace, Automation and Energy but will also be useful for professionals. The book is made accessible to the widest possible audience by numerous, solved examples and diagrams that apply the principles to real engineering applications.

Mechanics of Materials Andrew Pytel 2011-01-01 The second edition of MECHANICS OF MATERIALS by Pytel and Kiusalaas is a concise examination of the fundamentals of Mechanics of Materials. The book maintains the hallmark organization of the previous edition as well as the time-tested problem solving methodology, which incorporates outlines of procedures and numerous sample problems to help ease students through the transition from theory to problem analysis. Emphasis is placed on giving students the introduction to the field that they need along with the problem-solving skills that will help them in their subsequent studies. This is demonstrated in the text by the presentation of fundamental principles before the introduction of advanced/special topics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Analytical Dynamics Mark D. Ardema 2006-10-31 This book takes a traditional approach to the development of the methods of analytical dynamics, using two types of examples throughout: simple illustrations of key results and thorough applications to complex, real-life problems.

Semantic-Based Visual Information Retrieval Zhang, Yu-Jin 2006-11-30 "This book presents state-of-the-art advancements and developments in the field, and also brings a selection of techniques and algorithms about semantic-based visual information retrieval. It covers many critical issues, such as: multi-level representation and description, scene understanding, semantic modeling, image and video annotation, human-computer interaction, and more"--Provided by publisher.

The British National Bibliography Arthur James Wells 2000

Engineering Vibrations William J. Bottega 2014-12-11 A thorough study of the oscillatory and transient motion of mechanical and structural systems, Engineering Vibrations, Second Edition presents vibrations from a unified point of view, and builds on the first edition with additional chapters and sections that contain more advanced, graduate-level topics. Using numerous examples and case studies to r

1967 Tom Segev 2007-05-29 From Israel's leading historian, a sweeping history of 1967—the war, what led up to it, what came after, and how it changed everything Tom Segev's acclaimed works One Palestine, Complete and The Seventh Million overturned accepted views of the history of Israel. Now, in 1967—a number-one bestseller in Hebrew—he brings his masterful skills to the watershed year when six days of war reshaped the

country and the entire region. Going far beyond a military account, Segev re-creates the crisis in Israel before 1967, showing how economic recession, a full grasp of the Holocaust's horrors, and the dire threats made by neighbor states combined to produce a climate of apocalypse. He depicts the country's bravado after its victory, the mood revealed in a popular joke in which one soldier says to his friend, "Let's take over Cairo"; the friend replies, "Then what shall we do in the afternoon?" Drawing on unpublished letters and diaries, as well as government memos and military records, Segev reconstructs an era of new possibilities and tragic missteps. He introduces the legendary figures—Moshe Dayan, Golda Meir, Gamal Abdul Nasser, and Lyndon Johnson—and an epic cast of soldiers, lobbyists, refugees, and settlers. He reveals as never before Israel's intimacy with the White House as well as the political rivalries that sabotaged any chance of peace. Above all, he challenges the view that the war was inevitable, showing that a series of disastrous miscalculations lie behind the bloodshed. A vibrant and original history, 1967 is sure to stand as the definitive account of that pivotal year.

Engineering Mechanics Andrew Pytel 2001 This textbook teaches students the basic mechanical behaviour of materials at rest (statics), while developing their mastery of engineering methods of analysing and solving problems.

Thin Plates and Shells Eduard Ventsel 2001-08-24 Presenting recent principles of thin plate and shell theories, this book emphasizes novel analytical and numerical methods for solving linear and nonlinear plate and shell dilemmas, new theories for the design and analysis of thin plate-shell structures, and real-world numerical solutions, mechanics, and plate and shell models for engineering appli

Introduction to Mechanical System Simulation Using Adams James B. McConville 2015-10 This book is intended to familiarize you with the basics of theory and practice in Adams Multibody Dynamics (MBD) modeling. The content has been developed to be beneficial to readers who are students or practicing engineers who are either completely new to MBD modeling or have some experience with MBD modeling. The author's lengthy experience using the Adams software adds a practical and, occasionally, humorous complement to standard documentation and training materials, intended to benefit you while learning Adams. The book features relatively small examples which you can readily build and execute. This book contains an introduction to Adams theory which provides the basics on how Adams models are formulated and then numerically solved. Finally, this book concludes with some success stories taken from industry.

Newtonian Mechanics Anthony Philip French 1971 The text material in the present volume is designed to be a more or less self-contained introduction to Newtonian mechanics, such that a student with little or no grounding in the subject can, by beginning at the beginning, be brought gradually to a level of considerable proficiency.

Analytical Dynamics Haim Baruh 1999 Analytical Dynamics presents a fair and balanced description of dynamics problems and formulations. From the classical methods to the newer techniques used in today's complex and multibody environments, this text shows how those approaches complement each other. The text begins by introducing the reader to the basic concepts in mechanics. These concepts are introduced at the

particle mechanics level. The text then extends these concepts to systems of particles, rigid bodies (plane motion and 3D), and lightly flexible bodies. The cornerstone variational principles of mechanics are developed and they are applied to particles, rigid bodies, and deformable bodies. Through this approach, students are exposed to a natural flow of the concepts used in dynamics.

Robotics Bruno Siciliano 2010-08-20 Based on the successful Modelling and Control of Robot Manipulators by Sciavicco and Siciliano (Springer, 2000), Robotics provides the basic know-how on the foundations of robotics: modelling, planning and control. It has been expanded to include coverage of mobile robots, visual control and motion planning. A variety of problems is raised throughout, and the proper tools to find engineering-oriented solutions are introduced and explained. The text includes coverage of fundamental topics like kinematics, and trajectory planning and related technological aspects including actuators and sensors. To impart practical skill, examples and case studies are carefully worked out and interwoven through the text, with frequent resort to simulation. In addition, end-of-chapter exercises are proposed, and the book is accompanied by an electronic solutions manual containing the MATLAB® code for computer problems; this is available free of charge to those adopting this volume as a textbook for courses.

Fundamentals of Applied Dynamics James H. Williams, Jr. 2019-12-17 An introductory engineering textbook by an award-winning MIT professor that covers the history of dynamics and the dynamical analyses of mechanical, electrical, and electromechanical systems. This introductory textbook offers a distinctive blend of the modern and the historical, seeking to encourage an appreciation for the history of dynamics while also presenting a framework for future learning. The text presents engineering mechanics as a unified field, emphasizing dynamics but integrating topics from other disciplines, including design and the humanities. The book begins with a history of mechanics, suitable for an undergraduate overview. Subsequent chapters cover such topics as three-dimensional kinematics; the direct approach, also known as vectorial mechanics or the momentum approach; the indirect approach, also called lagrangian dynamics or variational dynamics; an expansion of the momentum and lagrangian formulations to extended bodies; lumped-parameter electrical and electromagnetic devices; and equations of motion for one-dimensional continuum models. The book is noteworthy in covering both lagrangian dynamics and vibration analysis. The principles covered are relatively few and easy to articulate; the examples are rich and broad. Summary tables, often in the form of flowcharts, appear throughout. End-of-chapter problems begin at an elementary level and become increasingly difficult. Appendixes provide theoretical and mathematical support for the main text.

Special Relativity A.P. French 2017-07-12 The book opens with a description of the smooth transition from Newtonian to Einsteinian behaviour from electrons as their energy is progressively increased, and this leads directly to the relativistic expressions for mass, momentum and energy of a particle.

Hot Molecules, Cold Electrons Paul J. Nahin 2020-03-17 "This book is a testament to the intimate, mutual embrace of mathematics and physics. It achieves that by telling the story of an historical event of tremendous impact upon society, both spiritually and technically - the mid-19th century construction of the trans-Atlantic telegraph cable, which reduced the time to send a message across the ocean from weeks to minutes. The story

of the cable actually begins decades earlier, at the start of the century, with the French mathematical physicist Joseph Fourier's development of the mathematics that the Scottish physicist William Thomson (later Lord Kelvin) would use to analyze the electrical physics of the cable. The story of Fourier opens the book, that of Thomson completes it, and in-between the reader will learn how to derive Fourier's second-order partial differential equation for the flow of heat energy in matter, how Fourier solved the heat equation, how Thomson used Fourier's solutions to calculate the age of the Earth (imagined to be the result of the of an initially molten sphere of blinding brilliance) and, finally, how Thomson showed that the heat equation also describes the Atlantic cable. An epilogue describing the post-Thomson developments completes the book. All readers who have completed first courses at the level of AP-calculus and AP-physics will be able to read this book. This is a perhaps surprising feature of the book, as the mathematics discussed is normally not encountered until the second year (or even later) of college-level work. This book shows that, in fact, the technical material is fully graspable by a college freshman. Unlike a pure technical book, readers will also find a lot of fascinating history in this book (including the bizarre story of how the English novelist Charles Dickens used the Atlantic cable to send a coded message - during his 1867 American reading tour - to avoid a career-damaging scandal concerning his mistress)"--

Intermediate Reader of Modern Chinese Robert F. Stengel 2022-11-01 An updated and expanded new edition of an authoritative book on flight dynamics and control system design for all types of current and future fixed-wing aircraft Since it was first published, Flight Dynamics has offered a new approach to the science and mathematics of aircraft flight, unifying principles of aeronautics with contemporary systems analysis. Now updated and expanded, this authoritative book by award-winning aeronautics engineer Robert Stengel presents traditional material in the context of modern computational tools and multivariable methods. Special attention is devoted to models and techniques for analysis, simulation, evaluation of flying qualities, and robust control system design. Using common notation and not assuming a strong background in aeronautics, Flight Dynamics will engage a wide variety of readers, including aircraft designers, flight test engineers, researchers, instructors, and students. It introduces principles, derivations, and equations of flight dynamics as well as methods of flight control design with frequent reference to MATLAB functions and examples. Topics include aerodynamics, propulsion, structures, flying qualities, flight control, and the atmospheric and gravitational environment. The second edition of Flight Dynamics features up-to-date examples; a new chapter on control law design for digital fly-by-wire systems; new material on propulsion, aerodynamics of control surfaces, and aeroelastic control; many more illustrations; and text boxes that introduce general mathematical concepts. Features a fluid, progressive presentation that aids informal and self-directed study Provides a clear, consistent notation that supports understanding, from elementary to complicated concepts Offers a comprehensive blend of aerodynamics, dynamics, and control Presents a unified introduction of control system design, from basics to complex methods Includes links to online MATLAB software written by the author that supports the material covered in the book

Springer Handbook of Robotics Bruno Siciliano 2016-07-27 The second edition of this handbook provides a state-of-the-art overview on the various aspects in the rapidly developing field of robotics. Reaching for the human frontier, robotics is vigorously engaged in the growing challenges of new emerging domains. Interacting,

exploring, and working with humans, the new generation of robots will increasingly touch people and their lives. The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline. The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics. The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences & Mathematics as well as the organization's Award for Engineering & Technology. The second edition of the handbook, edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors, continues to be an authoritative reference for robotics researchers, newcomers to the field, and scholars from related disciplines. The contents have been restructured to achieve four main objectives: the enlargement of foundational topics for robotics, the enlightenment of design of various types of robotic systems, the extension of the treatment on robots moving in the environment, and the enrichment of advanced robotics applications. Further to an extensive update, fifteen new chapters have been introduced on emerging topics, and a new generation of authors have joined the handbook's team. A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos, which bring valuable insight into the contents. The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app. Springer Handbook of Robotics Multimedia Extension Portal: http://handbookofrobotics.org/

Religious Changes and Cultural Transformations in the Early Modern Western Sephardic Communities Yosef Kaplan 2019 The Western Sephardic communities came into being as a result of confessional migration. However, in contrast to the other European confessional communities, the Sephardic Jews in Western Europe came to Judaism after a separation of generations from the religion of their ancestors. The contributions in this volume detail those transformations in the Early Modern Western Sephardic communities.

Biomedical Engineering and Design Handbook, Volume 1 Myer Kutz 2009-07-13 A State-of-the-Art Guide to Biomedical Engineering and Design Fundamentals and Applications The two-volume Biomedical Engineering and Design Handbook, Second Edition offers unsurpassed coverage of the entire biomedical engineering field, including fundamental concepts, design and development processes, and applications. This landmark work contains contributions on a wide range of topics from nearly 80 leading experts at universities, medical centers, and commercial and law firms. Volume 1 focuses on the basics of biomedical engineering, including biomedical systems analysis, biomechanics of the human body, biomaterials, and bioelectronics. Filled with more than 500 detailed illustrations, this superb volume provides the foundational knowledge required to understand the design and development of innovative devices, techniques, and treatments. Volume 1 covers: Modeling and Simulation of Biomedical Systems Bioheat Transfer Physical and Flow Properties of Blood Respiratory Mechanics and Gas Exchange Biomechanics of the Respiratory Muscles Biomechanics of Human Movement Biomechanics of the Musculoskeletal System Biodynamics Bone Mechanics Finite Element Analysis Vibration, Mechanical Shock, and Impact Electromyography Biopolymers Biomedical Composites Bioceramics Cardiovascular Biomaterials Dental Materials Orthopaedic Biomaterials Biomaterials to Promote Tissue Regeneration Bioelectricity Biomedical Signal Analysis Biomedical Signal Processing Intelligent Systems and

Bioengineering BioMEMS

A HEAT TRANSFER TEXTBOOK John H. Lienhard 2004

Encyclopedia of Information Science and Technology Mehdi Khosrow-Pour 2009 "This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

Dynamics in Engineering Practice Dara W. Childs 2015-04-17 Observing that most books on engineering dynamics left students lacking and failing to grasp the general nature of dynamics in engineering practice, the authors of Dynamics in Engineering Practice, Eleventh Edition focused their efforts on remedying the problem. This text shows readers how to develop and analyze models to predict motion. While esta

Methods of Analytical Dynamics Leonard Meirovitch 2012-04-26 Encompassing formalism and structure in analytical dynamics, this graduate-level text discusses fundamentals of Newtonian and analytical mechanics, rigid body dynamics, problems in celestial mechanics and spacecraft dynamics, more. 1970 edition.

Advanced Dynamics A. Frank D'Souza 1984

Analytical Mechanics Joseph S. Torok 1999-11-04 A stimulating, modern approach to analytical mechanics Analytical Mechanics with an Introduction to Dynamical Systems offers a much-needed, up-to-date treatment of analytical dynamics to meet the needs of today's students and professionals. This outstanding resource offers clear and thorough coverage of mechanics and dynamical systems, with an approach that offers a balance between physical fundamentals and mathematical concepts. Exceptionally well written and abundantly illustrated, the book contains over 550 new problems-more than in any other book on the subject-along with user-friendly computational models using MATLAB. Featured topics include: * An overview of fundamental dynamics, both two- and three-dimensional * An examination of variational approaches, including Lagrangian theory * A complete discussion of the dynamics of rotating bodies * Coverage of the three-dimensional dynamics of rigid bodies * A detailed treatment of Hamiltonian systems and stability theory Ideal for advanced undergraduate and graduate students in mechanical engineering, physics, or applied mathematics, this distinguished text is also an excellent self-study or reference text for the practicing engineer or scientist.

Compressible Fluid Flow P. H. Oosthuizen 1997-01-01 This new text provides clear explanations of the physical phenomena encountered in compressible fluid flow by providing more practical applications, more worked examples, and more detail about the underlying assumptions than other texts. Its broad topic coverage includes a thorough review of the fundamentals, a wide array of applications, and unique coverage of hypersonic flow. This is the ideal text for compressible fluid flow or gas dynamics courses found in mechanical or aerospace engineering programs.

Sears List of Subject Headings Bertha Margaret Frick 1997

Engineering Mechanics David J. McGill 1989-05-25 This text offers a clear presentation of the principles of engineering mechanics: each concept is presented as it relates to the fundamental principles on which all mechanics is based. The text contains a large number of actual engineering problems to develop and encourage the understanding of important concepts. These examples and problems are presented in both SI and Imperial units and the notation is primarily vector with a limited amount of scalar. This edition combines coverage of both statics and dynamics but is also available in two separate volumes.

Principles of Dynamics Greenwood Donald T 1988

Moon Viorel Badescu 2012-03-22 The Earth has limited material and energy resources. Further development of the humanity will require going beyond our planet for mining and use of extraterrestrial mineral resources and search of power sources. The exploitation of the natural resources of the Moon is a first natural step on this direction. Lunar materials may contribute to the betterment of conditions of people on Earth but they also may be used to establish permanent settlements on the Moon. This will allow developing new technologies, systems and flight operation techniques to continue space exploration. In fact, a new branch of human civilization could be established permanently on Moon in the next century. But, meantime, an inventory and proper social assessment of Moon's prospective energy and material resources is required. This book investigates the possibilities and limitations of various systems supplying manned bases on Moon with energy and other vital resources. The book collects together recent proposals and innovative options and solutions. It is a useful source of condensed information for specialists involved in current and impending Moon-related activities and a good starting point for young researchers.

Childhood in the Late Ottoman Empire and After Benjamin C. Fortna 2015-10-30 This title is available online in its entirety in Open Access. This volume explores the ways childhood was experienced, lived and remembered in the late Ottoman Empire and its successor states in the late nineteenth and early twentieth centuries when rapid change placed unprecedented demands on the young.

Classical Dynamics Donald T. Greenwood 2012-05-04 Graduate-level text provides strong background in more abstract areas of dynamical theory. Hamilton's equations, d'Alembert's principle, Hamilton-Jacobi theory, other topics. Problems and references. 1977 edition.

Advanced Dynamics Donald T. Greenwood 2006-11-02 Advanced Dynamics is a broad and detailed description of the analytical tools of dynamics as used in mechanical and aerospace engineering. The strengths and weaknesses of various approaches are discussed, and particular emphasis is placed on learning through problem solving. The book begins with a thorough review of vectorial dynamics and goes on to cover Lagrange's and Hamilton's equations as well as less familiar topics such as impulse response, and differential forms and integrability. Techniques are described that provide a considerable improvement in computational efficiency over the standard classical methods, especially when applied to complex dynamical systems. The treatment of numerical analysis includes discussions of numerical stability and constraint stabilization. Many worked examples and homework problems are provided. The book is intended for use on graduate courses on

dynamics, and will also appeal to researchers in mechanical and aerospace engineering.

The Theory of Classical Dynamics J. B. Griffiths 1985-05-30 This textbook describes in detail the classical theory of dynamics, a subject fundamental to the physical sciences, which has a large number of important applications. The author's aim is to describe the essential content of the theory, the general way in which it is used, and the basic concepts that are involved. No deep understanding can be obtained simply by examining theoretical considerations, so Dr Griffiths has included throughout many examples and exercises. This then is an ideal textbook for an undergraduate course for physicists or mathematicians who are familiar with vector analysis.

Applied Dynamics Haim Baruh 2014-12-12 Gain a Greater Understanding of How Key Components Work Using realistic examples from everyday life, including sports (motion of balls in air or during impact) and vehicle motions, Applied Dynamics emphasizes the applications of dynamics in engineering without sacrificing the fundamentals or rigor. The text provides a detailed analysis of the principles of dynamics and vehicle motions analysis. An example included in the topic of collisions is the famous "Immaculate Reception," whose 40th anniversary was recently celebrated by the Pittsburgh Steelers. Covers Stability and Response Analysis in Depth The book addresses two- and three-dimensional Newtonian mechanics, it covers analytical mechanics, and describes Lagrange's and Kane's equations. It also examines stability and response analysis, and vibrations of dynamical systems. In addition, the text highlights a developing interest in the industry—the dynamics and stability of land vehicles. Contains Lots of Illustrative Examples In addition to the detailed coverage of dynamics applications, over 180 examples and nearly 600 problems richly illustrate the concepts developed in the text. Topics covered include: General kinematics and kinetics Expanded study of two- and three-dimensional motion, as well as of impact dynamics Analytical mechanics, including Lagrange's and Kane's equations The stability and response of dynamical systems, including vibration analysis Dynamics and stability of ground vehicles Designed for classroom instruction appealing to undergraduate and graduate students taking intermediate and advanced dynamics courses, as well as vibration study and analysis of land vehicles, Applied Dynamics can also be used as an up-to-date reference in engineering dynamics for researchers and professional engineers.

Fundamentals of Gas Dynamics Robert D. Zucker 2019-10-15 New edition of the popular textbook, comprehensively updated throughout and now includes a new dedicated website for gas dynamic calculations The thoroughly revised and updated third edition of Fundamentals of Gas Dynamics maintains the focus on gas flows below hypersonic. This targeted approach provides a cohesive and rigorous examination of most practical engineering problems in this gas dynamics flow regime. The conventional one-dimensional flow approach together with the role of temperature-entropy diagrams are highlighted throughout. The authors—noted experts in the field—include a modern computational aid, illustrative charts and tables, and myriad examples of varying degrees of difficulty to aid in the understanding of the material presented. The updated edition of Fundamentals of Gas Dynamics includes new sections on the shock tube, the aerospike nozzle, and the gas dynamic laser. The book contains all equations, tables, and charts necessary to work the problems and exercises in each chapter. This book's accessible but rigorous style: Offers a comprehensively updated edition that

includes new problems and examples Covers fundamentals of gas flows targeting those below hypersonic Presents the one-dimensional flow approach and highlights the role of temperature-entropy diagrams Contains new sections that examine the shock tube, the aerospike nozzle, the gas dynamic laser, and an expanded coverage of rocket propulsion Explores applications of gas dynamics to aircraft and rocket engines Includes behavioral objectives, summaries, and check tests to aid with learning Written for students in mechanical and aerospace engineering and professionals and researchers in the field, the third edition of Fundamentals of Gas Dynamics has been updated to include recent developments in the field and retains all its learning aids. The calculator for gas dynamics calculations is available at https://www.oscarbiblarz.com/gascalculator gas dynamics calculations