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Boundary-Layer Theory Herrmann Schlichting 2003-05-20 A new edition of the almost legendary textbook by Schlichting completely revised by Klaus Gersten is now available. This book presents a comprehensive overview of boundary-layer theory and its application to all areas of fluid mechanics, with emphasis on the flow past bodies (e.g. aircraft aerodynamics). It contains the latest knowledge of the subject based on a thorough review of the literature over the past 15 years. Yet again, it will be an indispensable source of inexhaustible information for students of fluid mechanics and engineers alike.

Foundations of Fluid Mechanics with Applications Sergey P. Kiselev 1999-12 This book presents the basic concepts of continuum mechanics. The material is presented in a tensor invariant form with a large number of problems with solutions. The book integrates the use of the computer algebra system Mathematica, and contains a large number of programs on the disk that will help clarify the concepts of continuum mechanics.

Fluid Mechanics Egon Krause 2005-01-19 Despite dramatic advances in numerical and experimental methods of fluid mechanics, the fundamentals are still the starting point for solving flow problems. This textbook introduces the major

branches of fluid mechanics of incompressible and compressible media, the basic laws governing their flow, and gasdynamics. "Fluid Mechanics" demonstrates how flows can be classified and how specific engineering problems can be identified, formulated and solved, using the methods of applied mathematics. The material is elaborated in special applications sections by more than 200 exercises and separately listed solutions. The final section comprises the Aerodynamics Laboratory, an introduction to experimental methods treating eleven flow experiments. This class-tested textbook offers a unique combination of introduction to the major fundamentals, many exercises, and a detailed description of experiments.

Thermodynamik Charles Kittel 2013-05-02 Die Thermodynamik ist eines der Gebiete, welches durch die Einführung quantenmechanischer Konzepte ganz wesentlich vereinfacht wird. Erstaunlich ist, wie wenig formelle Quantenmechanik dazu benötigt wird. Eine solche Darstellung der Physik der Wärme ist das Ziel dieses Buches.

Elementary Fluid Mechanics John K. Vennard 1982-05-14 The revised edition of the classic text on the principles of fluid mechanics. New edition features expanded and clarified coverage of control volume and real fluid flow, increased use of SI units, and a clearer integration of illustrative problems into the text.

Emphasizes physical concepts rather than mathematical calculations.

Books in Print 1995

Optische Eigenschaften von Festkörpern Mark Fox 2012-04-04 Dieses exzellente Werk fuhr aus, in welcher Hinsicht optische Eigenschaften von Festkörpern anders sind als die von Atomen. [...] Die Ausgewogenheit von physikalischen Erklärungen und mathematischer Beschreibung ist sehr gut. DER Text ist ergänzt durch kritische Anmerkungen in den Marginalien und selbsterklärender Abbildungen. BARRY R. MASTERS, OPN Optics & Photonics News 2011 Fox ist es gelungen, eine gute, kompakte und anspruchsvolle Darstellung der optischen Eigenschaften von Festkörpern vorzulegen. AMERICAN JOURNAL OF PHYSICS

Subject Guide to Books in Print 1990

Fluid Mechanics Joseph Spurk 2007-12-21 This successful textbook emphasizes the unified nature of all the disciplines of Fluid Mechanics as they emerge from the general principles of continuum mechanics. The different branches of Fluid Mechanics, always originating from simplifying assumptions, are developed according to the basic rule: from the general to the specific. The first part of the book contains a concise but readable introduction into kinematics and the formulation of the laws of mechanics and thermodynamics. The second part consists of the methodical application of these principles to technology. In addition,

sections about thin-film flow and flow through porous media are included.

Mecânica dos Fluidos Frank M. White 1962 Esta obra apresenta de forma clara e abrangente os conceitos físicos da matéria, desenvolvendo o conteúdo até as aplicações na engenharia. Isso prova aos alunos a importância prática de dominar os fundamentos da mecânica de fluidos. A grande variedade de tópicos oferece aos professores muitas opções para a sua disciplina e é um recurso útil para os alunos muito depois da formatura.

Fluid Mechanics RICHARDSON 1989

Fluid Mechanics Frank M. White 2020-12

A Finite Element Approach for Modelling of Inviscid and Viscous Compressible Flows Using Prismatic Grids Shishir Ashok Pandya 1998

The British Library General Catalogue of Printed Books, 1986 to 1987 British Library 1988

Zeitdiskrete Signalverarbeitung Alan V. Oppenheim 2015-06-03 Wer die Methoden der digitalen Signalverarbeitung erlernen oder anwenden will, kommt ohne das weltweit bekannte, neu gefaßte Standardwerk "Oppenheim/Schafer" nicht aus. Die Beliebtheit des Buches beruht auf den didaktisch hervorragenden Einführungen, der umfassenden und tiefgreifenden Darstellung der Grundlagen, der kompetenten Berücksichtigung moderner Weiterentwicklungen und der Vielzahl

verständnisfördernder Aufgaben.

Fluid Mechanics Joseph H. Spurk 1997-07-07 This collection of over 200 detailed worked exercises adds to and complements the textbook "Fluid Mechanics" by the same author, and, at the same time, illustrates the teaching material via examples. The exercises revolve around applying the fundamental concepts of "Fluid Mechanics" to obtain solutions to diverse concrete problems, and, in so doing, the students' skill in the mathematical modelling of practical problems is developed. In addition, 30 challenging questions WITHOUT detailed solutions have been included. While lecturers will find these questions suitable for examinations and tests, students themselves can use them to check their understanding of the subject.

Mechanics of Solids and Fluids Franz Ziegler 1995 For the practicing engineer, Mechanics of Solids and Fluids provides an up-to-date and unified presentation of the theories and practical principles common to all branches of solid and fluid mechanics.

Moderne Physik Paul A. Tipler 2009-11-11 Endlich liegt die anschauliche und fundierte Einführung zur Modernen Physik von Paul A. Tipler und Ralph A. Llewellyn in der deutschen Übersetzung vor. Eine umfassende Einführung in die Relativitätstheorie, die Quantenmechanik und die statistische Physik wird im

ersten Teil des Buches gegeben. Die wichtigsten Arbeitsgebiete der modernen Physik - Festkörperphysik, Kern- und Teilchenphysik sowie die Kosmologie und Astrophysik - werden in der zweiten Hälfte des Buches behandelt. Zu weiteren zahlreichen Spezialgebieten gibt es Ergänzungen im Internet beim Verlag der amerikanischen Originalausgabe, die eine Vertiefung des Stoffes ermöglichen. Mit ca. 700 Übungsaufgaben eignet sich das Buch hervorragend zum Selbststudium sowie zur Begleitung einer entsprechenden Vorlesung. Die Übersetzung des Werkes übernahm Dr. Anna Schleitzer. Die Bearbeitung und Anpassung an Anforderungen deutscher Hochschulen wurde von Prof. Dr. G. Czycholl, Prof. Dr. W. Dreybrodt, Prof. Dr. C. Noack und Prof. Dr. U. Strohmusch durchgeführt. Dieses Team gewährleistet auch für die deutsche Fassung die wissenschaftliche Exaktheit und Stringenz des Originals.

Mechanical Engineering News 1978

Micropolar Fluids Grzegorz Lukaszewicz 1999-02-01 Micropolar fluids are fluids with microstructure. They belong to a class of fluids with nonsymmetric stress tensor that we shall call polar fluids, and include, as a special case, the well-established Navier-Stokes model of classical fluids that we shall call ordinary fluids. Physically, micropolar fluids may represent fluids consisting of rigid, randomly oriented (or spherical) particles suspended in a viscous medium, where

the deformation of fluid particles is ignored. The model of micropolar fluids introduced in [65] by C. A. Eringen is worth studying as a very well balanced one. First, it is a well-founded and significant generalization of the classical Navier-Stokes model, covering, both in theory and applications, many more phenomena than the classical one. Moreover, it is elegant and not too complicated, in other words, man ageable to both mathematicians who study its theory and physicists and engineers who apply it. The main aim of this book is to present the theory of micropolar fluids, in particular its mathematical theory, to a wide range of readers. The book also presents two applications of micropolar fluids, one in the theory of lubrication and the other in the theory of porous media, as well as several exact solutions of particular problems and a numerical method. We took pains to make the presentation both clear and uniform.

McGraw-Hill Encyclopedia of Science & Technology 1987

Fluid Mechanics Victor Lyle Streeter 1998 Publisher description.

Differentialgeometrie Wolfgang Kühnel 2013-03-09 Dieses Buch ist eine Einführung in die Differentialgeometrie. Zunächst geht es um die klassischen Aspekte wie die Geometrie von Kurven und Flächen, bevor dann in der zweiten Hälfte höherdimensionale Flächen sowie abstrakte Mannigfaltigkeiten betrachtet werden. Die Nahtstelle ist dabei das zentrale Kapitel "Die innere Geometrie von

Flächen". Dieses führt den Leser bis hin zu dem berühmten Satz von Gauß-Bonnet, der ein entscheidendes Bindeglied zwischen lokaler und globaler Geometrie darstellt.

Die Tagebücher der Anne Frank Anne Frank 1988 En kritisk gennemgang af historien bag tilblivelsen af Anne Frank's dagbog, af efterforskningen af familien Frank's arrestation i 1944 og også en tekstkritisk gennemgang af de forskellige versioner af dagbogen

Engineering Thermofluids Mahmoud Massoud 2005-12-05 Thermofluids, while a relatively modern term, is applied to the well-established field of thermal sciences, which is comprised of various intertwined disciplines. Thus mass, momentum, and heat transfer constitute the fundamentals of thermofluids. This book discusses thermofluids in the context of thermodynamics, single- and two-phase flow, as well as heat transfer associated with single- and two-phase flows. Traditionally, the field of thermal sciences is taught in universities by requiring students to study engineering thermodynamics, fluid mechanics, and heat transfer, in that order. In graduate school, these topics are discussed at more advanced levels. In recent years, however, there have been attempts to integrate these topics through a unified approach. This approach makes sense as thermal design of widely varied systems ranging from hair dryers to semiconductor chips to jet engines to nuclear

power plants is based on the conservation equations of mass, momentum, angular momentum, energy, and the second law of thermodynamics. While integrating these topics has recently gained popularity, it is hardly a new approach. For example, Bird, Stewart, and Lightfoot in *Transport Phenomena*, Rohsenow and Choi in *Heat, Mass, and Momentum Transfer*, El-Wakil, in *Nuclear Heat Transport*, and Todreas and Kazimi in *Nuclear Systems* have pursued a similar approach. These books, however, have been designed for advanced graduate level courses. More recently, undergraduate books using an integral approach are appearing.

British Books in Print 1985

Theorie und Praxis der Laser-Doppler-Anemometrie Franz Durst 1987

Chemical Engineering Fluid Mechanics Ron Darby 1996 Explains how fundamental principles underlying the behaviour of fluids are applied systematically to the solution of practical engineering problems. Current information and state-of-the-art analytical methods are offered, and the work provides early coverage of dimensional analysis and scale-up.

Forum on Unsteady Flow 1994

Angewandte abstrakte Algebra Rudolf Lidl 1982

ASME Technical Papers

Grundlagen der Kommunikationstechnik John G. Proakis 2003 Proakis und Salehi haben mit diesem Lehrbuch einen Klassiker auf dem Gebiet der modernen Kommunikationstechnik geschaffen. Der Schwerpunkt liegt dabei auf den digitalen Kommunikationssystemen mit Themen wie Quellen- und Kanalcodierung sowie drahtlose Kommunikation u.a. Es gelingt den Autoren dabei der Brückenschlag von der Theorie zur Praxis. Außerdem werden mathematische Grundlagen wie Fourier-Analyse, Stochastik und Statistik gleich mitgeliefert.

Zielgruppe: Studierende der Elektro- und Informationstechnik und verwandter technischer Studienrichtungen wie Kommunikationstechnik, Technische Infor.
Books in Print Supplement 1985

Mathematische Modelle in der Biologie Jan W. Prüss 2008

Introduction to Fluid Mechanics Robert W. Fox 1998-11-03 Fox & McDonald offers a balanced approach designed to facilitate student learning by self-discovery and problem solving. The book features clear writing, detailed example problems to illustrate applications of the principles presented, and copious end-of-chapter exercises to promote self-study and comprehension by students. The text has been thoroughly tested in the classroom, and has been improved continuously through each edition. The content is divided nearly equally among text, example

problems, and end-of-chapter problems making the text exceptionally easy to use.

Fluid Mechanics Source Book Sybil P. Parker 1988

Unsteady Flows, 1994 American Society of Mechanical Engineers. Fluids Engineering Division. Summer Meeting 1994

Scientific and Technical Books and Serials in Print 1989

Grenzschicht-Theorie H. Schlichting 2013-08-13 Die Überarbeitung für die 10. deutschsprachige Auflage von Hermann Schlichtings Standardwerk wurde wiederum von Klaus Gersten geleitet, der schon die umfassende Neuformulierung der 9. Auflage vorgenommen hatte. Es wurden durchgängig Aktualisierungen vorgenommen, aber auch das Kapitel 15 von Herbert Oertel jr. neu bearbeitet. Das Buch gibt einen umfassenden Überblick über den Einsatz der Grenzschicht-Theorie in allen Bereichen der Strömungsmechanik. Dabei liegt der Schwerpunkt bei den Umströmungen von Körpern (z.B. Flugzeugaerodynamik). Das Buch wird wieder den Studenten der Strömungsmechanik wie auch Industrie-Ingenieuren ein unverzichtbarer Partner unerschöpflicher Informationen sein.

Engineering Thermofluids Mahmoud Massoud 2005-04-25 The Engineering Thermofluids is a unique textbook, which brings the three pillars of thermal sciences; thermodynamics, fluid mechanics, and heat transfer under one umbrella. These three distinct, yet intertwined subjects are treated in an integrated manner.

The primary audiences for this book are senior undergraduate, graduate, and practicing engineers in the fields of aeronautical, chemical industrial, mechanical, and nuclear engineering. Topics are discussed in detail while still using a simple and easy to follow approach. Numerous walk-through examples are solved and illustrations are provided to guide the reader through more subtle topics. Each chapter starts with a section for the introduction of various terminologies used. The chapter on thermodynamics covers the first law, the second law, the power cycles, and the mixture of gases. The chapter on fluid mechanics covers both steady-state and transient single phase-flow as well as two-phase flow. The chapter on heat transfer covers conduction, convection, radiation, boiling, and condensation. These chapters are followed by the chapter on applications of the engineering thermofluid, which covers the design and operations of various heat exchangers, turbomachines, and flowmeters. Many practical design problems are either solved or provided as homework. Practicing engineers will find this book a useful text to have around for the many practical problems and solutions, illustrations, definitions, methods, tables, and figures provided. The preference throughout the text is on obtaining analytical solutions of a closed form. Numerical solutions as well as experimental results are presented when analytical solutions cannot be

found.

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