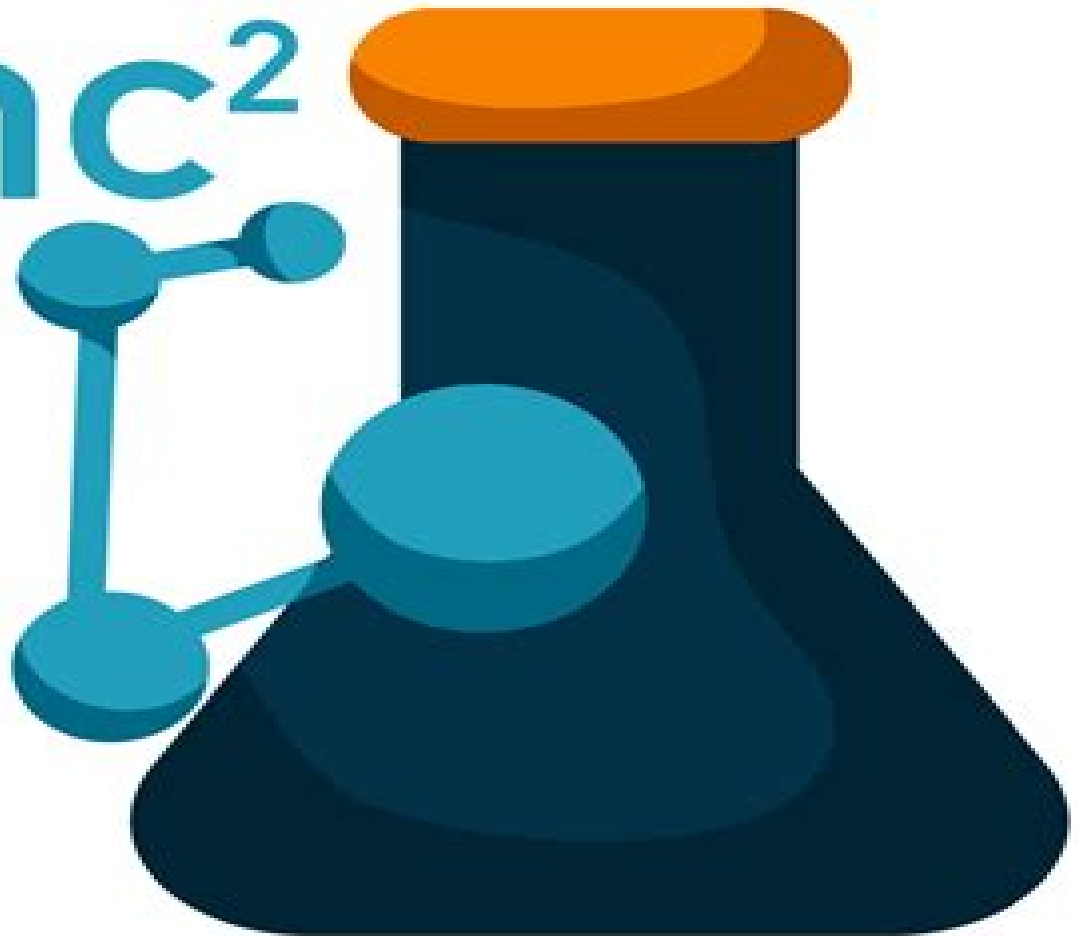


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A History and Philosophy of Fluid Mechanics G. A. Tokaty,1994-01-01 Through the centuries the intricacies of fluid mechanics the study of the laws of motion and fluids in

motion have occupied many of history's greatest minds In this pioneering account a distinguished aeronautical scientist presents a history of fluid mechanics focusing on the achievements of the pioneering scientists and thinkers whose inspirations and experiments lay behind the evolution of such disparate devices as irrigation lifts ocean liners windmills fireworks and spacecraft The author first presents the basics of fluid mechanics then explores the advances made through the work of such gifted thinkers as Plato Aristotle da Vinci Galileo Pascal Newton Bernoulli Euler Lagrange Ernst Mach and other scientists of the 20th century Especially important for its illuminating comparison of the development of fluid mechanics in the former Soviet Union with that in the West the book concludes with studies of transsonic compressibility and aerodynamics supersonic fluid mechanics hypersonic gas dynamics and the universal matter energy continuity Professor G A Tokaty has headed the prestigious Aeronautical Research Laboratory at the Zhukovsky Academy of Aeronautics in Moscow and has taught at the University of California Los Angeles He is Emeritus Professor of Aeronautics and Space Technology The City University London 161 illustrations Preface

Capsule Calculus Ira Ritow, 2013-02-21 This brief introductory text presents the basic principles of calculus from the engineering viewpoint Excellent either as a refresher or as an introductory course it focuses on developing familiarity with the basic principles rather than presenting detailed proofs Topics include differential calculus in terms of differentiation and elementary differential equations integral calculus in simple and multiple integration forms time calculus equations of motion and their solution complex variables complex algebra complex functions complex and operational calculus and simple and inverse transformations Advanced subjects comprise integrations and differentiation techniques in addition to a more sophisticated variety of differential equations than those previously discussed It is assumed that the reader possesses an acquaintance with algebra and trigonometry as well as some familiarity with graphs Additional background material is presented as needed

The Principles of Statistical Mechanics Richard Chace Tolman, 1979-01-01 This is the definitive treatise on the fundamentals of statistical mechanics A concise exposition of classical statistical mechanics is followed by a thorough elucidation of quantum statistical mechanics postulates theorems statistical ensembles changes in quantum mechanical systems with time and more The final two chapters discuss applications of statistical mechanics to thermodynamic behavior 1930 edition

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Introduction to the Calculus of Variations Hans Sagan, 2012-04-26 Provides a thorough understanding of calculus of variations and prepares readers for the study of modern optimal control theory Selected variational problems and over 400 exercises Bibliography 1969 edition

Complex Analysis with Applications Richard A. Silverman, 1984-01-01 The basics of what every scientist and engineer should know from complex numbers limits in the complex plane and complex functions to Cauchy's theory power series and

applications of residues 1974 edition **An Introduction to Statistical Thermodynamics** Terrell L. Hill, 1986-01-01 A large number of exercises of a broad range of difficulty make this book even more useful a good addition to the literature on thermodynamics at the undergraduate level Philosophical Magazine Although written on an introductory level this wide ranging text provides extensive coverage of topics of current interest in equilibrium statistical mechanics Indeed certain traditional topics are given somewhat condensed treatment to allow room for a survey of more recent advances The book is divided into four major sections Part I deals with the principles of quantum statistical mechanics and includes discussions of energy levels states and eigenfunctions degeneracy and other topics Part II examines systems composed of independent molecules or of other independent subsystems Topics range from ideal monatomic gas and monatomic crystals to polyatomic gas and configuration of polymer molecules and rubber elasticity An examination of systems of interacting molecules comprises the nine chapters in Part III reviewing such subjects as lattice statistics imperfect gases and dilute liquid solutions Part IV covers quantum statistics and includes sections on Fermi Dirac and Bose Einstein statistics photon gas and free volume theories of quantum liquids Each chapter includes problems varying in difficulty ranging from simple numerical exercises to small scale research propositions In addition supplementary reading lists for each chapter invite students to pursue the subject at a more advanced level Readers are assumed to have studied thermodynamics calculus elementary differential equations and elementary quantum mechanics Because of the flexibility of the chapter arrangements this book especially lends itself to use in a one or two semester graduate course in chemistry a one semester senior or graduate course in physics or an introductory course in statistical mechanics First Order Mathematical Logic Angelo Margaris, 1990-01-01 Attractive and well written introduction Journal of Symbolic Logic The logic that mathematicians use to prove their theorems is itself a part of mathematics in the same way that algebra analysis and geometry are parts of mathematics This attractive and well written introduction to mathematical logic is aimed primarily at undergraduates with some background in college level mathematics however little or no acquaintance with abstract mathematics is needed Divided into three chapters the book begins with a brief encounter of naive set theory and logic for the beginner and proceeds to set forth in elementary and intuitive form the themes developed formally and in detail later In Chapter Two the predicate calculus is developed as a formal axiomatic theory The statement calculus presented as a part of the predicate calculus is treated in detail from the axiom schemes through the deduction theorem to the completeness theorem Then the full predicate calculus is taken up again and a smooth running technique for proving theorem schemes is developed and exploited Chapter Three is devoted to first order theories i e mathematical theories for which the predicate calculus serves as a base Axioms and short developments are given for number theory and a few algebraic theories Then the metamathematical notions of consistency completeness independence categoricity and decidability are discussed The predicate calculus is proved to be complete The book concludes with an outline of Godel's incompleteness theorem Ideal for a one semester course this concise text offers

more detail and mathematically relevant examples than those available in elementary books on logic Carefully chosen exercises with selected answers help students test their grasp of the material For any student of mathematics logic or the interrelationship of the two this book represents a thought provoking introduction to the logical underpinnings of mathematical theory An excellent text Mathematical Reviews

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