

# Solving Equations with Physical Understanding

Acton, J.R.

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# Solving Equations With Physical Understanding

**Lingjun Ying**



## **Solving Equations With Physical Understanding:**

**Solving Equations with Physical Understanding**, John Reginald Acton, Patrick T. Squire, 1985-01-01 In creating mathematical models of real processes scientists engineers and students frequently encounter differential equations whose exact solutions are necessarily complicated and are normally solvable only by computer or through complex formal mathematics This practical book demonstrates how approximate methods may be used to minimize these mathematical difficulties giving the reader physical understanding both of the solution process and the final result Intended for undergraduates and graduate students teachers of physics engineering and other applied sciences professional and applied scientists and engineers

**Solving Equations With Physical Understanding** J.R. Acton, [Thinking About Equations](#) Matt A. Bernstein, William A. Friedman, 2011-09-20 An accessible guide to developing intuition and skills for solving mathematical problems in the physical sciences and engineering Equations play a central role in problem solving across various fields of study Understanding what an equation means is an essential step toward forming an effective strategy to solve it and it also lays the foundation for a more successful and fulfilling work experience Thinking About Equations provides an accessible guide to developing an intuitive understanding of mathematical methods and at the same time presents a number of practical mathematical tools for successfully solving problems that arise in engineering and the physical sciences Equations form the basis for nearly all numerical solutions and the authors illustrate how a firm understanding of problem solving can lead to improved strategies for computational approaches Eight succinct chapters provide thorough topical coverage including Approximation and estimation Isolating important variables Generalization and special cases Dimensional analysis and scaling Pictorial methods and graphical solutions Symmetry to simplify equations Each chapter contains a general discussion that is integrated with worked out problems from various fields of study including physics engineering applied mathematics and physical chemistry These examples illustrate the mathematical concepts and techniques that are frequently encountered when solving problems To accelerate learning the worked example problems are grouped by the equation related concepts that they illustrate as opposed to subfields within science and mathematics as in conventional treatments In addition each problem is accompanied by a comprehensive solution explanation and commentary and numerous exercises at the end of each chapter provide an opportunity to test comprehension Requiring only a working knowledge of basic calculus and introductory physics Thinking About Equations is an excellent supplement for courses in engineering and the physical sciences at the upper undergraduate and graduate levels It is also a valuable reference for researchers practitioners and educators in all branches of engineering physics chemistry biophysics and other related fields who encounter mathematical problems in their day to day work

**Understanding Aerodynamics** Doug McLean, 2012-12-26 Much needed fresh approach that brings a greater insight into the physical understanding of aerodynamics Based on the author s decades of industrial experience with Boeing this book helps students and practicing

engineers to gain a greater physical understanding of aerodynamics Relying on clear physical arguments and examples Mclean provides a much needed fresh approach to this sometimes contentious subject without shying away from addressing real aerodynamic situations as opposed to the oversimplified ones frequently used for mathematical convenience Motivated by the belief that engineering practice is enhanced in the long run by a robust understanding of the basics as well as real cause and effect relationships that lie behind the theory he provides intuitive physical interpretations and explanations debunking commonly held misconceptions and misinterpretations and building upon the contrasts provided by wrong explanations to strengthen understanding of the right ones Provides a refreshing view of aerodynamics that is based on the author's decades of industrial experience yet is always tied to basic fundamentals Provides intuitive physical interpretations and explanations debunking commonly held misconceptions and misinterpretations Offers new insights to some familiar topics for example what the Biot Savart law really means and why it causes so much confusion what Reynolds number and incompressible flow really mean and a real physical explanation for how an airfoil produces lift Addresses real aerodynamic situations as opposed to the oversimplified ones frequently used for mathematical convenience and omits mathematical details whenever the physical understanding can be conveyed without them

*The Feynman Lectures on Physics, Vol. II*  
Richard P. Feynman, Robert B. Leighton, Matthew Sands, 2011-10-04 New edition features improved typography figures and tables expanded indexes and 885 new corrections

**Understanding Scientific Understanding** Henk W. de Regt, 2017-07-24 It is widely acknowledged that a central aim of science is to achieve understanding of the world around us and that possessing such understanding is highly important in our present day society But what does it mean to achieve this understanding What precisely is scientific understanding These are philosophical questions that have not yet received satisfactory answers While there has been an ongoing debate about the nature of scientific explanation since Carl Hempel advanced his covering law model in 1948 the related notion of understanding has been largely neglected because most philosophers regarded understanding as merely a subjective by product of objective explanations By contrast this book puts scientific understanding center stage It is primarily a philosophical study but also contains detailed historical case studies of scientific practice In contrast to most existing studies in this area it takes into account scientists views and analyzes their role in scientific debate and development The aim of Understanding Scientific Understanding is to develop and defend a philosophical theory of scientific understanding that can describe and explain the historical variation of criteria for understanding actually employed by scientists The theory does justice to the insights of such famous physicists as Werner Heisenberg and Richard Feynman while bringing much needed conceptual rigor to their intuitions The scope of the proposed account of understanding is the natural sciences while the detailed case studies derive from physics examples from other sciences are presented to illustrate its wider validity

Nonlinear Systems in Heat Transfer Davood Domairry Ganji, Yaser Sabzehmeidani, Amin Sedighiamiri, 2017-09-15 Nonlinear Heat Transfer Mathematical Modeling and Analytical Methods

addresses recent progress and original research in nonlinear science and its application in the area of heat transfer with a particular focus on the most important advances and challenging applications The importance of understanding analytical methods for solving linear and nonlinear constitutive equations is essential in studying engineering problems This book provides a comprehensive range of partial differential equations applied in the field of heat transfer tackling a comprehensive range of nonlinear mathematical problems in heat radiation heat conduction heat convection heat diffusion and non Newtonian fluid systems Providing various innovative analytical techniques and their practical application in nonlinear engineering problems is the unique point of this book Drawing a balance between theory and practice the different chapters of the book focus not only on the broader linear and nonlinear problems but also applied examples of practical solutions by the outlined methodologies Demonstrates applied mathematical techniques in the engineering applications especially in nonlinear phenomena Exhibits a complete understanding of analytical methods and nonlinear differential equations in heat transfer Provides the tools to model and interpret applicable methods in heat transfer processes or systems to solve related complexities

*Wavelet Numerical Method and Its Applications in Nonlinear Problems* You-He Zhou, 2021-03-09 This book summarizes the basic theory of wavelets and some related algorithms in an easy to understand language from the perspective of an engineer rather than a mathematician In this book the wavelet solution schemes are systematically established and introduced for solving general linear and nonlinear initial boundary value problems in engineering including the technique of boundary extension in approximating interval bounded functions the calculation method for various connection coefficients the single point Gaussian integration method in calculating the coefficients of wavelet expansions and unique treatments on nonlinear terms in differential equations At the same time this book is supplemented by a large number of numerical examples to specifically explain procedures and characteristics of the method as well as detailed treatments for specific problems Different from most of the current monographs focusing on the basic theory of wavelets it focuses on the use of wavelet based numerical methods developed by the author over the years Even for the necessary basic theory of wavelet in engineering applications this book is based on the author's own understanding in plain language instead of a relatively difficult professional mathematical description This book is very suitable for students researchers and technical personnel who only want to need the minimal knowledge of wavelet method to solve specific problems in engineering

**Ocular Drug Delivery Systems** Deepak Thassu, Gerald J. Chader, 2012-10-02 Drug discovery for ocular diseases has taken great strides in the last two decades From cornea to choroid new drugs have been formulated to address a great variety of ocular diseases Yet without good drug delivery systems these drugs are less effective than they might be or could even cause serious side effects **Ocular Drug Delivery Systems** Ba **The Physics of Cerebrovascular Diseases** George J. Hademenos, Tarik F. Massoud, 1997-11-20 A review of our current understanding of the physical phenomena associated with the flow of blood through the brain applying these concepts to the physiological and medical aspects of cerebrovascular

disease so as to be useful to both the scientist and the clinician Specifically the book discusses the physical bases for the development of cerebrovascular disease and for its clinical consequences specific current and possible future therapies experimental clinical and computational techniques used to investigate cerebrovascular disease blood dynamics and its role imaging methods used in the diagnosis and management of cerebrovascular disease Intended as a one or two semester course in biophysics biomedical engineering or medical physics this is also of interest to medical students and interns in neurology and cardiology and provides a useful overview of current practice for researchers and clinicians

Understanding Engineering Mathematics John Bird, 2013-11-20 Studying engineering whether it is mechanical electrical or civil relies heavily on an understanding of mathematics This new textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them to solve real life engineering problems It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required Students who have not studied mathematics for some time will find this an excellent refresher Each chapter starts with the basics before gently increasing in complexity A full outline of essential definitions formulae laws and procedures are introduced before real world situations practicals and problem solving demonstrate how the theory is applied Focusing on learning through practice it contains examples supported by 1 600 worked problems and 3 000 further problems contained within exercises throughout the text In addition 34 revision tests are included at regular intervals An interactive companion website is also provided containing 2 750 further problems with worked solutions and instructor materials

*New Physical Ideas Are Here Needed: Revolutionizing Education* Art Bardige, 2007-04-23 How can we meet the increasing demands on American education for more content greater complexity and much higher levels of student success How can we make every student a more effective learner How can we help every teacher support learning more productively How can we create schools that enable each and every child to achieve the education to which he or she aspires We can with a new technology of education a technology focused on student practice and conceptual visualization Fortunately this new technology is now at hand and it can enable us to revolutionize education Please join me in an exploration of these new physical ideas that are here so desperately needed Art Bardige

Engineering Electromagnetics Explained Lakshman Kalyan, 2025-02-20

Engineering Electromagnetics Explained is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics Written by leading experts this book covers fundamental concepts theoretical frameworks and practical applications in engineering We start with basic principles of electromagnetism including Coulomb's Law Gauss's Law and Maxwell's Equations then delve into advanced topics such as electromagnetic waves transmission lines waveguides antennas and electromagnetic compatibility EMC Key Features Clear and concise explanations of fundamental electromagnetics concepts Numerous examples and illustrations to aid understanding Practical applications and real world examples demonstrating electromagnetics relevance in engineering Comprehensive coverage of

topics including transmission lines waveguides antennas and EMC End of chapter problems and exercises to reinforce learning This textbook is suitable for undergraduate and graduate students in electrical engineering electronics and communication engineering and related disciplines It serves as an essential resource for courses on electromagnetics electromagnetic field theory and electromagnetic compatibility Additionally practicing engineers and researchers will find this book a valuable reference for understanding and applying electromagnetics principles in their work **Higher**

**Engineering Mathematics** N.B. Singh, Higher Engineering Mathematics is a comprehensive textbook designed to provide students and professionals with a solid foundation in advanced mathematical techniques essential for engineering and applied sciences The book covers a wide range of topics including differential equations Fourier series Laplace transforms and complex analysis with a focus on practical applications Each chapter introduces key concepts in a clear and approachable manner supported by worked examples and problems that demonstrate how these mathematical tools are used to solve real world engineering problems Through step by step explanations and illustrative examples this book ensures that complex mathematical ideas are accessible and understandable for readers at all levels *Physical Optics of Ocean Water*

K.S. Shifrin,1998-02-18 *Truly Nonlinear Oscillations: Harmonic Balance, Parameter Expansions, Iteration, And Averaging Methods* Ronald E Mickens,2010-01-18 This unique book provides a concise presentation of many of the fundamental strategies for calculating approximations to the oscillatory solutions of truly nonlinear TNL oscillator equations The volume gives a general overview of the author s work on harmonic balance iteration and combined linearization averaging methods However full discussions are also presented on parameter expansion procedures and a first order averaging technique for TNL oscillators The calculational basis of each method is clarified by applying them to a set of standard TNL oscillator equations This allows a direct comparison to be made among the various methods The book is self contained and therefore suitable for both classroom use and self study by students and professionals who desire to learn understand and apply these technique to the field of nonlinear oscillations *Advanced Engineering Mathematics* Mr. Rohit Manglik,2024-07-12

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