

Thomass Calculus 14th Edition

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this book presents serious mathematical and algorithmic puzzles that are mostly counterintuitive the presented puzzles are simultaneously entertaining challenging intriguing and haunting this book introduces its readers to counterintuitive mathematical ideas and revolutionary algorithmic insights from a wide variety of topics the presented solutions that are discovered by many mathematicians and computer scientists are highly counterintuitive and show supreme mathematical beauty these counterintuitive solutions are intriguing to the degree that they shatter our preconceived notions shake our long held belief systems debunk our fundamental intuitions and finally rob us of sleep and haunt us for a lifetime multiple ways of attacking the same puzzle are presented which teach the application of elegant problem solving strategies

an intuitive and accessible approach to the fundamentals of physical optics in the newly revised second edition of principles of physical optics eminent researcher dr charles a bennet delivers an intuitive and practical text designed for a one semester introductory course in optics the book helps readers build a firm foundation in physical optics and gain valuable practical experience with a range of mathematical applications including matrix methods fourier analysis and complex algebra this latest edition is thoroughly updated and offers 20 more worked examples and 50 more homework problems than the first edition only knowledge of standard introductory sequences in calculus and calculus based physics is assumed with the included mathematics limited to what is necessary to adequately address the subject matter the book provides additional materials on optical imaging and nonlinear optics and dispersion for use in an accelerated course it also offers a thorough introduction to the physics of waves including the one dimensional wave equation and transverse traveling waves on a string comprehensive explorations of electromagnetic waves and photons including introductory material on electromagnetism and electromagnetic wave equations practical discussions of reflection and refraction including maxwell s equations at an interface and the fresnel equations in depth examinations of geometric optics as well as superposition interference and diffraction perfect for advanced undergraduate students of physics chemistry and materials science principles of physical optics also belongs on the bookshelves of engineering students seeking a one stop introduction to physical optics

this open access book documents the issues and developments in mathematics textbook research as presented at the fourth international conference on mathematics textbook research and development icmt 4 held at beijing normal university china

in november 2022 it showcases research and practical experiences from the mathematics textbook research field from over 20 countries and reflects the current trend of curriculum reform globally in terms of mathematics textbook research it helps readers gain knowledge about various issues related to the development content and use of mathematics textbooks from kindergarten to university level in and out of school settings in paper or digital format as well as the historical and recent developments and future directions in mathematics textbook research icmt 4 continues the successful series started in 2014 with the first icmt held in southampton uk which was followed in 2017 by icmt 2 in rio de janeiro brazil and in 2019 by icmt 3 in paderborn germany

the first part of this book is mainly intended as a textbook for students at the sophomore junior level majoring in mathematics engineering or the sciences in general the book includes the basic topics in ordinary differential equations normally taught at the undergraduate level such as linear and nonlinear equations and systems bessel functions laplace transform stability etc it is written with ample flexibility to make it appropriate either as a course stressing application or a course stressing rigor and analytical thinking it also offers sufficient material for a one semester graduate course covering topics such as phase plane analysis oscillation sturm liouville equations euler lagrange equations in calculus of variations first and second order linear pde in 2d there are substantial lists of exercises at the ends of the chapters in this edition complete solutions to all even number problems are given in the back of the book the 2nd edition also includes some new problems and examples an effort has been made to make the material more suitable and self contained for undergraduate students with minimal knowledge of calculus for example a detailed review of matrices and determinants has been added to the chapter on systems of equations the second edition also contains corrections of some misprints and errors in the first edition

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