Thomas Calculus 14th Edition Joel R Hass Christopher

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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

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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