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functions the fractional trigonometry with applications to fractional differential equations and science also presents fractional trigonometry as a tool for scientists and engineers and discusses how to apply fractional order methods to the current toolbox of mathematical modelers employs a mathematically clear presentation in an effort to make the topic broadly accessible includes solutions to linear fractional differential equations and generously features graphical forms of functions to help readers visualize the presented concepts provides effective and efficient methods to describe complex structures the fractional trigonometry with applications to fractional differential equations and science is an ideal reference for academic researchers research engineers research scientists mathematicians physicists biologists and chemists who need to apply new fractional calculus methods to a variety of disciplines the book is also appropriate as a textbook for graduate and phd level courses in fractional calculus carl f lorenzo is distinguished research associate at the nasa glenn research center in cleveland ohio his past positions include chief engineer of the instrumentation and controls division and chief of the advanced controls technology and systems dynamics branches at nasa he is internationally recognized for his work in the development and application of the fractional calculus and fractional trigonometry tom t hartley phd is emeritus professor in the department of electrical and computer engineering at the university of akron dr hartley is a recognized expert in fractional order systems and together with carl lorenzo has solved fundamental problems in the area including riemann's complementary function initialization function problem he received his phd in electrical engineering from vanderbilt university

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second part of the book chapters 6 through 9 this general theory is used to study systems of hyperbolic conservation laws this is a most significant well posedness theory for weak solutions of quasilinear evolutionary partial differential equations the final part of the book chapters 10 through 14 returns to the original subject of the shock wave theory by focusing on specific physical models potentially interesting questions and research directions are also raised in these chapters the book can serve as an introductory text for advanced undergraduate students and for graduate students in mathematics engineering and physical sciences each chapter ends with suggestions for further reading and exercises for students

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introduction to phase equilibria in ceramic systems offers end of chapter review problems extensive reading lists a solid thermodynamic foundation and clear perspectives on the special properties of ceramics as compared to metals this authoritative volume fills a broad gap in the literature helping undergraduate and graduate level students of ceramic engineering and materials science to approach this demanding subject in a rational confident fashion in addition introduction to phase equilibria in ceramic systems serves as a valuable supplement to undergraduate level metallurgy programs

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differential equations with linear algebra we explore this interplay between linear algebra and differential equations and examine introductory and important ideas in each usually through the lens of important problems that involve differential equations written at a sophomore level the text is accessible to students who have completed multivariable calculus with a systems first approach the book is appropriate for courses for majors in mathematics science and engineering that study systems of differential equations because of its emphasis on linearity the text opens with a full chapter devoted to essential ideas in linear algebra motivated by future problems in systems of differential equations the chapter on linear algebra introduces such key ideas as systems of algebraic equations linear combinations the eigenvalue problem and bases and dimension of vector spaces this chapter enables students to quickly learn enough linear algebra to appreciate the structure of solutions to linear differential equations and systems thereof in subsequent study and to apply these ideas regularly the book offers an example driven approach beginning each chapter with one or two motivating problems that are applied in nature the following chapter develops the mathematics necessary to solve these problems and explores related topics further even in more theoretical developments we use an example first style to build intuition and understanding before stating or proving general results over 100 figures provide visual demonstration of key ideas the use of the computer algebra system maple and microsoft excel are presented in detail throughout to provide further perspective and support students use of technology in solving problems each chapter closes with several substantial projects for further study many of which are based in applications errata sheet available at [oup.com/us/companionwebsites/9780195385861/pdf/errata.pdf](http://oup.com/us/companionwebsites/9780195385861/pdf/errata.pdf)

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