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William Elwood Byerly Astronomisches Rechen-Institut

an overview of classical solutions and their consequences in quantum field theory high energy physics and cosmology for graduates and researchers

this reference book describes the exact solutions of the following types of mathematical equations algebraic and transcendental equations ordinary differential equations systems of ordinary differential equations first order partial differential equations linear equations and problems of mathematical physics nonlinear equations of mathematical physics systems of partial differential equations integral equations difference and functional equations ordinary functional differential equations partial functional differential equations the book delves into equations that find practical applications in a wide array of natural and engineering sciences including the theory of heat and mass transfer wave theory hydrodynamics gas dynamics combustion theory elasticity theory general mechanics theoretical physics nonlinear optics biology chemical engineering sciences ecology and more most of these equations are of a reasonably general form and dependent on free parameters or arbitrary functions the handbook of exact solutions to mathematical equations generally has no analogs in world literature and contains a vast amount of new material the exact solutions given in the book being rigorous mathematical standards can be used as test problems to assess the accuracy and verify the adequacy of various numerical and approximate analytical methods for solving mathematical equations as well as to check and compare the effectiveness of exact analytical methods

in recent times the idea of cloaking has become very popular after radar and sonar were discovered problems of visibility reduction for physical bodies in air by electromagnetic waves or in water by acoustical waves have immediately become serious

engineering applications offer benefits and opportunities across a range of different industries and fields by developing effective methods of analysis results and solutions are produced with higher accuracy numerical and analytical solutions for solving nonlinear equations in heat transfer is an innovative source of academic research on the optimized techniques for analyzing heat transfer equations and the application of these methods across various fields highlighting pertinent topics such as the differential transformation method industrial applications and the homotopy perturbation method this book is ideally designed for engineers researchers graduate students professionals and academics interested in applying new mathematical techniques in engineering sciences

the major topics in this volume are electroweak physics including lep physics and radiative corrections cp violation and lepton number nonconservation and neutrino physics and astroparticle physics the latest progress in both the theoretical and the experimental aspects of the topics is discussed

the exercises are grouped into seven chapters with titles matching those in the author's mathematical statistics can also be used as a stand alone because exercises and solutions are comprehensible independently of their source and notation and terminology are explained in the front of the book suitable for self study for a statistics ph d qualifying exam

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