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covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology the authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations the book supplies numerous examples graphs

figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

undergraduate text opens with introductory chapters on matrix algebra vectors and cartesian tensors and an analysis of deformation and stress succeeding chapters examine laws of conservation of mass momentum and energy as well as the formulation of mechanical constitutive equations 1992 edition

this concise self contained textbook gives an in depth look at problem solving from a mathematician s point of view each chapter builds off the previous one while introducing a variety of methods that could be used when approaching any given problem creative thinking is the key to solving mathematical problems and this book outlines the tools necessary to improve the reader s technique the text is divided into twelve chapters each providing corresponding hints explanations and finalization of solutions for the problems in the given chapter for the reader s convenience each exercise is marked with the required background level this book implements a variety of strategies that can be used to solve mathematical problems in fields such as analysis calculus linear and multilinear algebra and combinatorics it includes applications to mathematical physics geometry and other branches of mathematics also provided within the text are real life problems in engineering and technology thinking in problems is intended for advanced undergraduate and graduate students in the classroom or as a self study guide prerequisites include linear algebra and analysis

introduction to fundamentals of potential functions covers the force of gravity fields of force potentials harmonic functions electric images and green s function sequences of harmonic functions fundamental existence theorems the logarithmic potential and much more detailed proofs rigorously worked out 1929 edition

classical vehicle dynamics which is the basis for manned ground vehicle design has exhausted its potential for providing novel design concepts to a large degree at the same time unmanned ground vehicle ugv dynamics is still in its infancy and is currently being developed using general analytical dynamics principles with very little input from actual vehicle dynamics theory this technical book presents outcomes from the nato advanced study institute asi advanced autonomous vehicle design for severe environments held in coventry uk in july 2014 the asi provided a platform for world class professionals to meet and discuss leading edge research engineering accomplishments and future trends in manned and unmanned ground vehicle dynamics terrain mobility and energy efficiency the outcomes of this collective effort serve as an analytical

foundation for autonomous vehicle design topics covered include historical aspects pivotal accomplishments and the analysis of future trends in on and off road manned and unmanned vehicle dynamics terramechanics soil dynamic characteristics uncertainties and stochastic characteristics of vehicle environment interaction for agile vehicle dynamics modeling new methods and techniques in on line control and learning for vehicle autonomy fundamentals of agility and severe environments mechatronics and cyber physics issues of agile vehicle dynamics to design for control energy harvesting and cyber security and case studies of agile and inverse vehicle dynamics and vehicle systems design including optimisation of suspension and driveline systems the book targets graduate students who desire to advance further in leading edge vehicle dynamics topics in manned and unmanned ground vehicles phd students continuing their research work and building advanced curricula in academia and industry and researchers in government agencies and private companies

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