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Minimal Surfaces and Functions of Bounded Variation7th International Symposium on High-Temperature Metallurgical ProcessingThe Classification of the Finite Simple Groups, Number 10Analysis of the Dynamic Lateral Stability of a Delta-wing Airplane with Frequency-dependent Stability DerivativesFlow Field Analysis of Aircraft Configurations Using a Numerical Solution to the Three-dimensional Unified Supersonic/hypersonic Small Disturbance EquationsTheory of Uniform Approximation of Functions by PolynomialsNASA Technical NoteStructural Analysis with the Finite Element Method. Linear StaticsHandbook of Exact Solutions to Mathematical EquationsComputational Stochastic MechanicsIssledovanii a po teorii plastin i obolochekHiroshima Mathematical JournalMechanical Sciences - Mashinovedeniye   Izvestii aJournal of the Optical Society of AmericaJournal of the Chemical SocietyMaterials Transactions, JIM.Journal of the Korean Mathematical SocietyScientific Reports Giusti Jiann-Yang Hwang Inna Capdeboscq Albert E. Brown R. C. Gunness Vladislav Kirillovich Dzi a dyk Eugenio Oñate Andrei D. Polyanin P.D. Spanos   Akademii a nauk SSSR. Chemical Society (Great Britain) Hiroshima Daigaku. Riron Butsuri Kenkyūjo

the problem of finding minimal surfaces i e of finding the surface of least area among those bounded by a given curve was one of the first considered after the foundation of the calculus of variations and is one which received a satis factory solution only in recent years called the problem of plateau after the blind physicist who did beautiful experiments with soap films and bubbles it has resisted the efforts of many mathematicians for more than a century it was only in the thirties that a solution was given to the problem of plateau in 3 dimensional euclidean space with the papers of douglas dj and rado r t1 2 the methods of douglas and rado were developed and extended in 3 dimensions by several authors but none of the results was shown to hold even for minimal hypersurfaces in higher dimension let alone surfaces of higher dimension and codimension it was not until thirty years later that the problem of plateau was successfully attacked in its full generality by several authors using measure theoretic methods in particular see de giorgi dg1 2 4 5 reifenberg re federer and fleming ff and almgren af1 2 federer and fleming defined a k dimensional surface in ir as a k current i e a continuous linear functional on k forms their method is treated in full detail in the splendid book of federer fh 1

the technology operation energy environmental analysis and future development of the metallurgical industries utilizing high temperature processes are covered in the book the innovations on the extraction and production of ferrous and nonferrous metals alloys and refractory and ceramic materials the heating approaches and energy management and the treatment and utilizations of the wastes and by products are the topics of special interests this book focuses on the following issues high efficiency new metallurgical process and technology fundamental research of metallurgical process alloys and materials preparation direct reduction and smelting reduction coking new energy and environment utilization of solid slag wastes and complex ores characterization of high temperature metallurgical process

this book is the tenth in a series of volumes whose aim is to provide a complete proof of the classification theorem for the finite simple groups based on a fairly short and clearly enumerated set of background results specifically this book completes our identification of the simple groups of bicharacteristic type begun in the ninth volume of the series see surv 40 9 this is a fascinating set of simple groups which have properties in common with matrix groups or more generally groups of lie type defined both over fields of characteristic 2 and over fields of characteristic 3 this set includes 11 of the celebrated 26 sporadic simple groups along with several of their large simple subgroups together with surv 40 9 this volume provides the first unified treatment of this class of simple groups

the unified small disturbance equations are numerically solved using the well known lax wendroff finite difference technique the method allows complete determination of the inviscid flow field and surface properties as long as the flow remains supersonic shock waves and other discontinuities are accounted for implicity in the numerical method this technique was programed for general application to the three dimensional case the validity of the method is demonstrated by calculations on cones axisymmetric bodies lifting bodies delta wings and a conical wing body combination part 1 contains the discussion of problem development and results of the study part 2 contains flow charts subroutine descriptions and a listing of the computer program

review text the book could be of interest for all who work in approximation theory and related fields it should not be overlooked by university libraries in ems newsletter 3 2009 it is useful for students interested in uniform approximation theory and it can be used as a reference book for researchers as well in l enseignement mathématique 2 2008

structural analysis with the finite element method linear statics volume 1 the basis and solids eugenio oñate the two volumes of this book cover most of the theoretical and computational aspects of the linear static analysis of structures with the finite element method fem the content of the book is based on the lecture notes of a basic course on structural analysis with the fem taught by the author at the technical university of catalonia upc in barcelona spain for the last 30 years volume1 presents the basis of the fem for structural analysis and a detailed description of the finite element formulation for axially loaded bars plane elasticity problems axisymmetric solids and general three dimensional solids each chapter describes the background theory for each structural model considered details of the finite element formulation and guidelines for the application to structural engineering problems the book includes a chapter on miscellaneous topics such as treatment of inclined supports elastic foundations stress smoothing error estimation and adaptive mesh refinement techniques among others the text concludes with a chapter on the mesh generation and visualization of fem results the book will be useful for students approaching the finite element analysis of structures for the first time as well as for practising engineers interested in the details of the formulation and performance of the different finite elements for practical structural analysis structural analysis with the finite element method linear statics volume 2 beams plates and shells eugenio oñate the two volumes of this book cover most of the theoretical and computational aspects of the linear static analysis of structures with the finite element method fem the content of the book is based on the lecture notes of a basic course on structural analysis with the fem taught by the author at the technical university of catalonia upc in barcelona spain for the last 30 years volume 2 presents a detailed description of the finite element formulation for analysis of slender and thick beams thin and thick plates folded plate structures axisymmetric shells general curved shells prismatic structures and three dimensional beams each chapter describes the background theory for each structural model considered details of the finite element formulation and guidelines for the application to structural engineering problems emphasis is put on the treatment of structures with layered composite materials the book will be useful for students approaching the finite element analysis of beam plate and shell structures for the first time as well as for practising engineers interested in the details of the formulation and performance of the different finite elements for practical structural analysis

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

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