The Mathematical Theory Of Special And General Relativity

The Mathematical Theory of the TopThe Mathematical Theory of CommunicationThe Mathematical Theory of Finite Element MethodsThe Mathematical Theory of Tone Systems˜Theœ mathematical theory of the topAdvanced Studies in the Mathematical Theory of Scattering, Volume 3A Treatise on the Mathematical Theory of ElasticityIntroduction to the Mathematical Theory of the Stress and Strain of Elastic SolidsMathematical Theory of Scattering ResonancesThe Mathematical Theory of RelativityThe Mathematical Theory of Electricity and MagnetismMathematical Theory of Compressible Fluid FlowMathematical Theory of DomainsPhysico-Mathematical Theory of High Irreversible Strains in MetalsMathematical theory of control, edA Mathematical Theory of SpiritA Mathematical Theory of CommunicationMathematical Theory of ElasticityThe Mathematical Theory of Black HolesThe Mathematical Theory of the Top Felix Klein Claude E Shannon Susanne Brenner Jan Haluska Felix Klein Jean-Michel L. Bernard Augustus Edward Hough Love Benjamin Williamson Semyon Dyatlov August Kopff James Jeans Richard Von Mises V. Stoltenberg-Hansen V.M. Greshnov Conference on the Mathematical Theory of Control, University of Southern California, 1967 Herbert Stanley Redgrove Casey Reas Richa Hetnarski Chandrasekhar Félix Klein

scientific knowledge grows at a phenomenal pace but few books have had as lasting an impact or played as important a role in our modern world as the mathematical theory of communication published originally as a paper on communication theory more than fifty years ago republished in book form shortly thereafter it has since gone through four hardcover and sixteen paperback printings it is a revolutionary work astounding in its foresight and contemporaneity the university of illinois press is pleased and honored to issue this commemorative reprinting of a classic

a rigorous and thorough mathematical introduction to the subject a clear and concise treatment of modern fast solution techniques such as multigrid and domain decomposition algorithms second edition contains two new chapters as well as many new exercises previous edition sold over 3000 copies worldwide

the mathematical theory of tone systems patterns a unified theory defining the tone system in functional terms based on the principles and forms of uncertainty theory this title uses geometrical nets and other measures to study all classes of used and theoretical tone systems from pythagorean tuning to superparticular pentatonics hundreds of exa

this book presents a collection of independent mathematical studies describing the analytical

reduction of complex generic problems in the theory of scattering and propagation of electromagnetic waves in the presence of imperfectly conducting objects their subjects include a global method for scattering by a multimode plane diffraction by an impedance curved wedge scattering by impedance polygons advanced properties of spectral functions in frequency and time domains bianisotropic media and related coupling expressions and exact and asymptotic reductions of surface radiation integrals the methods developed here can be qualified as analytical when they lead to exact explicit expressions or semi analytical when they drastically reduce the mathematical complexity of studied problems therefore they can be used in mathematical physics and engineering to analyse and model but also in applied mathematics to calculate the scattered fields in electromagnetism for a low computational cost

an indispensable reference work for engineers mathematicians and physicists this book is the most complete and authoritative treatment of classical elasticity in a single volume beginning with elementary notions of extension simple shear and homogeneous strain the analysis rapidly undertakes a development of types of strain displacements corresponding to a given strain cubical dilatation composition of strains and a general theory of strains a detailed analysis of stress including the stress quadric and uniformly varying stress leads into an exposition of the elasticity of solid bodies based upon the work energy concept experimental results are examined and the significance of elastic constants in general theory considered hooke s law elastic constants methods of determining stress thermo elastic equations and other topics are carefully discussed back cover

scattering resonances generalize bound states eigenvalues for systems in which energy can scatter to infinity a typical resonance has a rate of oscillation just as a bound state does and a rate of decay although the notion is intrinsically dynamical an elegant mathematical formulation comes from considering meromorphic continuations of green s functions the poles of these meromorphic continuations capture physical information by identifying the rate of oscillation with the real part of a pole and the rate of decay with its imaginary part an example from mathematics is given by the zeros of the riemann zeta function they are essentially the resonances of the laplacian on the modular surface the riemann hypothesis then states that the decay rates for the modular surface are all either or an example from physics is given by quasi normal modes of black holes which appear in long time asymptotics of gravitational waves this book concentrates mostly on the simplest case of scattering by compactly supported potentials but provides pointers to modern literature where more general cases are studied it also presents a recent approach to the study of resonances on asymptotically hyperbolic manifolds the last two chapters are devoted to semiclassical methods in the study of resonances

a pioneer in the fields of statistics and probability theory richard von mises 1883 1953 made notable advances in boundary layer flow theory and airfoil design this text on compressible flow unfinished upon his sudden death was subsequently completed in accordance with his plans and von mises first three chapters were augmented with a survey of the theory of steady plane flow suitable as a text for advanced undergraduate and graduate students as well as a reference for professionals mathematical theory of compressible fluid flow examines the fundamentals of high speed flows with detailed considerations of general theorems conservation equations waves shocks and nonisentropic flows in this the final work of his distinguished career von mises summarizes his extensive knowledge of a central branch of fluid mechanics characteristically he pays particular attention to the basics both conceptual and mathematical the novel concept of a specifying equation clarifies the role of thermodynamics in the mechanics of compressible fluids the general theory of characteristics receives a remarkably complete and simple treatment with detailed applications and the theory of shocks as asymptotic phenomena appears within the context of rational mechanics

introductory textbook general reference in domain theory for professionals in computer science and logic

presents a new physical and mathematical theory of irreversible deformations and ductile fracture of metals that acknowledges the continuous change in the structure of materials during deformation and the accumulation of deformation damage plastic deformation viscous

destruction evolution of structure creep processes and long term strength of metals and stress relaxation are described in the framework of a unified approach and model the author then expands this into a mathematical model for determining the mechanical characteristics of quasi samples of standard mechanical properties in deformed semi finished products

the purpose of this book is to present mathematical theory of elasticity and its applications to a wide range of readers including graduate students and researchers in modern theory of continuum mechanics the book provides classical results on elasticity as well as the new findings of classical type obtained in recent years by various researchers

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