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Introduction to Modern Optics Optics and Optical Instruments Modern Optics An Introduction to Hamiltonian Optics Elementary Wave Optics Optics Laboratory Soviet Journal of Optical Technology The VSEPR Model of Molecular Geometry Fundamentals of Hydro- and Aeromechanics Introduction to Special Relativity Analytical Mechanics of Gears Colliding Plane Waves in General Relativity Curvature in Mathematics and Physics Kinetic Theory of Gases Combinatorial Enumeration Theory of Electromagnetic Wave Propagation Causality and Modern Science Equations of Mathematical Physics Fluid Mechanics The Functions of Mathematical Physics Grant R. Fowles B. K. Johnson B. D. Guenther H. A. Buchdahl Robert H. Webb Mr. Rohit Manglik Ronald J Gillespie Oskar Karl Gustav Tietjens James H. Smith Earle Buckingham J.B. Griffiths Shlomo Sternberg Walter Kauzmann Ian P. Goulden Charles Herach Papas Mario Bunge A. N. Tikhonov Robert A. Granger Harry Hochstadt

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a complete basic undergraduate course in modern optics for students in physics technology and engineering the first half deals with classical physical optics the second quantum nature of light solutions

practical guide shows how to set up working models of telescopes microscopes photographic lenses and projecting systems how to conduct experiments for determining accuracy resolving power more 234 diagrams

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and forces and more

this volume provides a solid foundation for logical gear design practices and data topics include an analysis of conjugate gear tooth action nature of the contact and resulting gear tooth profiles of several types of gears plus gear teeth in action indispensable guide for engineers concerned with tooth geometry manufacturing accuracies and general design 1949 edition

this monograph surveys recent research on the collision and interaction of gravitational and electromagnetic waves this is a particularly important topic in general relativity the author notes since the theory predicts that there will be a nonlinear interaction between such waves geared toward graduate students and researchers in general relativity the text offers a comprehensive and unified review of the vast literature on the subject the first eight chapters offer background presenting the field equations and discussing some qualitative aspects of their solution subsequent chapters explore further exact solutions for colliding plane gravitational waves and the collision and interaction of electromagnetic waves the final chapters summarize all related results for the collision of plane waves of different types and in non flat backgrounds a new postscript updates developments since the book's initial 1991 publication

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clear coherent work for graduate level study discusses the maxwell field equations radiation from wire antennas wave aspects of radio astronomical antenna theory the

doppler effect and more

i regard it as a truly seminal work in this field professor william a wallace author of causality and scientific explanation this third edition of a distinguished book on the subject of causality is clear evidence that this principle continues to be an important area of philosophic enquiry non technical and clearly written this book focuses on the ontological problem of causality with specific emphasis on the place of the causal principle in modern science the author first defines the terminology employed and describes various formulations on the causal principle he then examines the two primary critiques of causality the empiricist and the romantic as a prelude to the detailed explanation of the actual assertions of causal determination finally dr bunge analyzes the function of the causal principle in science touching on such subjects as scientific law scientific explanation and scientific prediction included also is an appendix that offers specific replies to questions and criticisms raised upon the publication of the first edition now professor of philosophy and head of the foundation and philosophy of science unit at mcgill university in montreal dr mario bunge has formerly been a full professor of theoretical physics his observations on causality are of great interest to both scientists and humanists as well as the general scientific and philosophic reader

mathematical physics plays an important role in the study of many physical processes hydrodynamics elasticity and electrodynamics to name just a few because of the enormous range and variety of problems dealt with by mathematical physics this thorough advanced undergraduate or graduate level text considers only those problems leading to partial differential equations contents i classification of partial differential equations ii evaluations of the hyperbolic type iii equations of the parabolic type iv equations of elliptic type v wave propagation in space vi heat conduction in space vii equations of elliptic type continuation the authors two well known russian mathematicians have focused on typical physical processes and the principal types of equations dealing with them special attention is paid throughout to mathematical formulation rigorous solutions and physical interpretation of the results obtained carefully chosen problems designed to promote technical skills are contained in each chapter along with extremely useful appendixes that supply applications of solution methods described in the main text at the end of the book a helpful supplement discusses special functions including spherical and cylindrical functions

structured introduction covers everything the engineer needs to know nature of fluids hydrostatics differential and integral relations dimensional analysis viscous flows more solutions to selected problems 760 illustrations 1985 edition

a modern classic this clearly written incisive textbook provides a comprehensive detailed survey of the functions of mathematical physics a field of study straddling the somewhat artificial boundary between pure and applied mathematics in the 18th and 19th centuries the theorists who devoted themselves to this field pioneers such as gauss euler fourier legendre and bessel were searching for mathematical solutions to physical problems today although most of the functions have practical applications in areas ranging from the quantum theoretical model of the atom to the vibrating membrane some such as those related to the theory of discontinuous groups still remain of purely mathematical interest chapters one and two examine orthogonal polynomials with sections on such topics as the recurrence formula the christoffel darbox formula the weierstrass approximation theorem and the application of hermite polynomials to quantum mechanics chapter three is devoted to the principal properties of the gamma function including asymptotic expansions and mellin barnes integrals chapter four covers hypergeometric functions including a review of linear differential equations with regular singular points and a general method for finding integral representations chapters five and six are concerned with the legendre functions and their use in the solutions of laplace s equation in spherical coordinates as well as problems in an n dimension setting chapter seven deals with confluent hypergeometric functions and chapter eight examines at length the most important of these the bessel functions chapter nine covers hill s equations including the expansion theorems

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