Spherical Harmonics and Tensors for Classical Field Theory (Electronic and Electrical Engineering Research Studies Applied and Engineering Mathematic)

Jones, M. N.

Spherical Harmonics And Tensors For Classical Field Theory

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Spherical Harmonics And Tensors For Classical Field Theory:

 Spherical Harmonics and Tensors for Classical Field Theory Michael Norman Jones,1985-08-07 Presents the theory of spherical harmonics in a form suitable for the analysis of non separable nonlinear partial differential equations defined in a spherical or infinite domain Describes and develops those aspects of group theory that are relevant to classical field theory Each harmonic is labeled by a particular irreducible representation of the three dimensional rotation group Shows how to apply tensor harmonic techniques to all branches of classical field theory including fluid mechanics electromagnetism geophysics and the atmospheric sciences *Classical Field Theory* Francis E. Low,2008-07-11 The author uses a unique approach which emphasizes the field theoretic aspects of gravitation and the strong analogies between gravitation and the other areas that are studied in physics The theory centered text begins with the simplest experimental facts then proceeds to the corresponding differential equations theoretical constructs such as energy momentum and stress and several applications End of chapter problems provide students with an opportunity to test their understanding serve as an introduction to and a review of material not included in the book and can be used to develop examples extensions and generalizations of the material presented **Spherical Functions of Mathematical Geosciences** Willi Freeden,Michael Schreiner,2022-10-14 This book is an enlarged second edition of a monograph published in the Springer AGEM2 Series 2009 It presents in a consistent and unified overview a setup of the theory of spherical functions of mathematical geo sciences The content shows a twofold transition First the natural transition from scalar to vectorial and tensorial theory of spherical harmonics is given in a coordinate free context based on variants of the addition theorem Funk Hecke formulas and Helmholtz as well as Hardy Hodge decompositions Second the canonical transition from spherical harmonics via zonal kernel functions to the Dirac kernel is given in close orientation to an uncertainty principle classifying the space frequency momentum behavior of the functions for purposes of data analysis and geo application The whole palette of spherical functions is collected in a well structured form for modeling and simulating the phenomena and processes occurring in the Earth s system The result is a work which while reflecting the present state of knowledge in a time related manner claims to be of largely timeless significance in geo mathematical research and teaching Spectral Methods in Geodesy and Geophysics Christopher Jekeli,2017-10-02 The text develops the principal aspects of applied Fourier analysis and methodology with the main goal to inculcate a different way of perceiving global and regional geodetic and geophysical data namely from the perspective of the frequency or spectral domain rather than the spatial domain The word methods in the title is meant to convey that the transformation of a geophysical signal into the spectral domain can be applied for purposes of analysis as well as rapid computation The text is written for graduate students however Chapters 1 through 4 and parts of 5 can also benefit undergraduates who have a solid and fluent knowledge of integral and differential calculus have some statistical background and are not uncomfortable with complex numbers Concepts are developed by starting from the one dimensional domain and

working up to the spherical domain which is part of every chapter Many concepts are illustrated graphically with actual geophysical data primarily from signals of gravity magnetism and topography **The Discrepancy Method** Bernard Chazelle,2000 The discrepancy method is the glue that binds randomness and complexity It is the bridge between randomized computation and discrepancy theory the area of mathematics concerned with irregularities in distributions The discrepancy method has played a major role in complexity theory in particular it has caused a mini revolution of sorts in computational geometry This book tells the story of the discrepancy method in a few short independent vignettes It is a varied tale which includes such topics as communication complexity pseudo randomness rapidly mixing Markov chains points on the sphere and modular forms derandomization convex hulls Voronoi diagrams linear programming and extensions geometric sampling VC dimension theory minimum spanning trees linear circuit complexity and multidimensional searching The mathematical treatment is thorough and self contained In particular background material in discrepancy theory is supplied as needed Thus the book should appeal to students and researchers in computer science operations research pure and applied mathematics and engineering Special Functions of Mathematical (Geo-)Physics Willi Freeden,Martin Gutting,2013-02-15 Special functions enable us to formulate a scientific problem by reduction such that a new more concrete problem can be attacked within a well structured framework usually in the context of differential equations A good understanding of special functions provides the capacity to recognize the causality between the abstractness of the mathematical concept and both the impact on and cross sectional importance to the scientific reality The special functions to be discussed in this monograph vary greatly depending on the measurement parameters examined gravitation electric and magnetic fields deformation climate observables fluid flow etc and on the respective field characteristic potential field diffusion field wave field The differential equation under consideration determines the type of special functions that are needed in the desired reduction process Each chapter closes with exercises that reflect significant topics mostly in computational applications As a result readers are not only directly confronted with the specific contents of each chapter but also with additional knowledge on mathematical fields of research where special functions are essential to application All in all the book is an equally valuable resource for education in geomathematics and the study of applied and harmonic analysis Students who wish to continue with further studies should consult the literature given as supplements for each topic covered in the exercises **Harmonic Analysis for Engineers and Applied Scientists** Gregory S. Chirikjian,Alexander B. Kyatkin,2016-07-20 Although the Fourier transform is among engineering s most widely used mathematical tools few engineers realize that the extension of harmonic analysis to functions on groups holds great potential for solving problems in robotics image analysis mechanics and other areas This self contained approach geared toward readers with a standard background in engineering mathematics explores the widest possible range of applications to fields such as robotics mechanics tomography sensor calibration estimation and control liquid crystal analysis and conformational statistics of

macromolecules Harmonic analysis is explored in terms of particular Lie groups and the text deals with only a limited number of proofs focusing instead on specific applications and fundamental mathematical results Forming a bridge between pure mathematics and the challenges of modern engineering this updated and expanded volume offers a concrete accessible treatment that places the general theory in the context of specific groups   Classical Field Theory Florian Scheck,2012-05-08 The book describes Maxwell s equations first in their integral directly testable form then moves on to their local formulation The first two chapters cover all essential properties of Maxwell s equations including their symmetries and their covariance in a modern notation Chapter 3 is devoted to Maxwell theory as a classical field theory and to solutions of the wave equation Chapter 4 deals with important applications of Maxwell theory It includes topical subjects such as metamaterials with negative refraction index and solutions of Helmholtz equation in paraxial approximation relevant for the description of laser beams Chapter 5 describes non Abelian gauge theories from a classical geometric point of view in analogy to Maxwell theory as a prototype and culminates in an application to the U 2 theory relevant for electroweak interactions The last chapter 6 gives a concise summary of semi Riemannian geometry as the framework for the classical field theory of gravitation The chapter concludes with a discussion of the Schwarzschild solution of Einstein s equations and the classical tests of general relativity perihelion precession of Mercury and light deflection by the sun Textbook features detailed figures worked examples problems and solutions boxed inserts highlighted special topics highlighted important math etc helpful summaries appendix index   **Classical Fields: General Relativity And Gauge Theory** Moshe Carmeli,2001-11-28 This invaluable book presents gravitation and gauge fields as interrelated topics with a common physical and mathematical foundation such as gauge theory of gravitation and other fields giving emphasis to the physicist s point of view About half of the material is devoted to Einstein s general relativity theory and the rest to gauge fields that naturally blend well with gravitation including spinor formulation classification of SU 2 gauge fields and null tetrad formulation of the Yang Mills field in the presence of gravitation The text includes a useful introduction to the physical foundation of the theory of gravitation It also provides the mathematical theory of the geometry of curved space times needed to describe Einstein s general relativity theory   **Angular Momentum** William J. Thompson,2008-09-26 Develops angular momentum theory in a pedagogically consistent way starting from the geometrical concept of rotational invariance Uses modern notation and terminology in an algebraic approach to derivations Each chapter includes examples of applications of angular momentum theory to subjects of current interest and to demonstrate the connections between various scientific fields which are provided through rotations Includes Mathematica and C language programs   **Foundations of Antenna Radiation Theory** Wen Geyi,2023-03-24 Foundations of Antenna Radiation Theory Understand the theory and function of wireless antennas with this comprehensive guide As wireless technology continues to develop understanding of antenna properties and performance will only become more critical Since antennas can be understood as junctions of waveguides eigenmode analysis the foundation

of waveguide theory concerned with the unexcited states of systems and their natural resonant characteristics promises to be a crucial frontier in the study of antenna theory Foundations of Antenna Radiation Theory incorporates the modal analysis generic antenna properties and design methods discovered or developed in the last few decades not being reflected in most antenna books into a comprehensive introduction to the theory of antennas This book puts readers into conversation with the latest research and situates students and researchers at the cutting edge of an important field of wireless technology The book also includes Detailed discussions of the solution methods for Maxwell equations and wave equations to provide a theoretical foundation for electromagnetic analysis of antennas Recent developments for antenna radiation in closed and open space modal analysis and field expansions dyadic Green s functions time domain theory state of the art antenna array synthesis methods wireless power transmission systems and more Innovative material derived from the author s own research Foundations of Antenna Radiation Theory is ideal for graduate or advanced undergraduate students studying antenna theory as well as for reference by researchers engineers and industry professionals in the areas of wireless technology *Proceedings of the 1991 Scientific Conference on Obscuration and Aerosol Research* Deborah A. Clark,Janice E. Rhodes,Barbara A. Claunch,1992 **Deformation Mechanisms, Rheology and Tectonics** David J. Prior,Ernest Henry Rutter,Daniel J. Tatham,2011 This collection of papers presents recent advances in the study of deformation mechanisms and rheology and their applications to tectonics Many of the contributions exploit new petrofabric techniques particularly electron backscatter diffraction to help understand the evolution of rock microstructure and mechanical properties Papers in the first section lattice preferred orientations and anisotropy show a growing emphasis on the determination of elastic properties from petrofabrics from which acoustic properties can be computed for comparison with in situ seismic measurements Such research will underpin geodynamic interpretation of large scale active tectonics Contributions in the second section microstructures mechanisms and rheology study the relations between microstructural evolution during deformation and mechanical properties *Stochastic Models, Information Theory, and Lie Groups, Volume 2* Gregory S. Chirikjian,2011-11-15 This unique two volume set presents the subjects of stochastic processes information theory and Lie groups in a unified setting thereby building bridges between fields that are rarely studied by the same people Unlike the many excellent formal treatments available for each of these subjects individually the emphasis in both of these volumes is on the use of stochastic geometric and group theoretic concepts in the modeling of physical phenomena Stochastic Models Information Theory and Lie Groups will be of interest to advanced undergraduate and graduate students researchers and practitioners working in applied mathematics the physical sciences and engineering Extensive exercises motivating examples and real world applications make the work suitable as a textbook for use in courses that emphasize applied stochastic processes or differential geometry **IUTAM Symposium on Anisotropy, Inhomogeneity and Nonlinearity in Solid Mechanics** David F. Parker,Arthur H. England,2013-11-11 Proceedings of the IUTAM ISIMM Symposium held in Nottingham

U K 30 August 3 September 1994 **Classical Theory of Electric and Magnetic Fields** Roland H. Good,Terence J. Nelson,2013-10-22 Classical Theory of Electric and Magnetic Fields is a textbook on the principles of electricity and magnetism This book discusses mathematical techniques calculations with examples of physical reasoning that are generally applied in theoretical physics This text reviews the classical theory of electric and magnetic fields Maxwell s Equations Lorentz Force and Faraday s Law of Induction The book also focuses on electrostatics and the general methods for solving electrostatic problems concerning images inversion complex variable or separation of variables The text also explains magnetostatics and compares the calculation methods of electrostatics with those of magnetostatics The book also discusses electromagnetic wave phenomena concerning wave equations with a source term and the Maxwell equations which are linear and homogenous The book also explains Einstein s the Special Theory of Relativity which is applicable only to inertial coordinate systems The text also discusses the particle aspects of electromagnetic field equations such as those concerning wave equations for particles with spin This textbook is intended for graduate or advanced students and academicians in the field of physics *The Physicit of Nuclear Reactors* Serge Marguet,2018-02-26 This comprehensive volume offers readers a progressive and highly detailed introduction to the complex behavior of neutrons in general and in the context of nuclear power generation A compendium and handbook for nuclear engineers a source of teaching material for academic lecturers as well as a graduate text for advanced students and other non experts wishing to enter this field it is based on the author s teaching and research experience and his recognized expertise in nuclear safety After recapping a number of points in nuclear physics placing the theoretical notions in their historical context the book successively reveals the latest quantitative theories concerning The slowing down of neutrons in matter The charged particles and electromagnetic rays The calculation scheme especially the simplification hypothesis The concept of criticality based on chain reactions The theory of homogeneous and heterogeneous reactors The problem of self shielding The theory of the nuclear reflector a subject largely ignored in literature The computational methods in transport and diffusion theories Complemented by more than 400 bibliographical references some of which are commented and annotated and augmented by an appendix on the history of reactor physics at EDF Electricit De France this book is the most comprehensive and up to date introduction to and reference resource in neutronics and reactor theory Visualization and Processing of Higher Order Descriptors for Multi-Valued Data Ingrid Hotz,Thomas Schultz,2015-07-03 Modern imaging techniques and computational simulations yield complex multi valued data that require higher order mathematical descriptors This book addresses topics of importance when dealing with such data including frameworks for image processing visualization and statistical analysis of higher order descriptors It also provides examples of the successful use of higher order descriptors in specific applications and a glimpse of the next generation of diffusion MRI To do so it combines contributions on new developments current challenges in this area and state of the art surveys Compared to the increasing importance of higher order descriptors in a range of applications tools for

analysis and processing are still relatively hard to come by Even though application areas such as medical imaging fluid dynamics and structural mechanics are very different in nature they face many shared challenges This book provides an interdisciplinary perspective on this topic with contributions from key researchers in disciplines ranging from visualization and image processing to applications It is based on the 5th Dagstuhl seminar on Visualization and Processing of Higher Order Descriptors for Multi Valued Data This book will appeal to scientists who are working to develop new analysis methods in the areas of image processing and visualization as well as those who work with applications that generate higher order data or could benefit from higher order models and are searching for novel analytical tools **Photomagneton And Quantum Field Theory, The - Volume 1 Of Quantum Chemistry** Myron W Evans,Ahmed Hasanein,1994-06-21 This first volume of this two volume set deals with the important recent discovery of the photomagneton of electromagnetic radiation a discovery which is fundamental in quantum field theory and in quantum mechanics in matter The photomagneton is the elementary quantum of magnetic flux density carried by the individual photon in free space and is generated directly by the intrinsic angular momentum of the free photon The volume develops the theory of the photomagneton in a series of papers which cover all the major aspects of the theory from classical electrodynamics to the relativistic quantum field Several suggestions are given for experimental tests and the available experimental evidence is discussed in detail The overall conclusion of the series of papers is that the photomagneton which is observable experimentally in magneto optical phenomena indicates the presence in free space of a novel longitudinal magnetic flux density linked ineluctably to the usual transverse components If the photomagneton is not observed then a paradox would have emerged at the most fundamental electrodynamical level necessitating a modification of the Maxwell equations themselves **Engineering Applications of Noncommutative Harmonic Analysis** Gregory S. Chirikjian,Alexander B. Kyatkin,2021-02-25 First published in 2001 The classical Fourier transform is one of the most widely used mathematical tools in engineering However few engineers know that extensions of harmonic analysis to functions on groups holds great potential for solving problems in robotics image analysis mechanics and other areas For those that may be aware of its potential value there is still no place they can turn to for a clear presentation of the background they need to apply the concept to engineering problems Engineering Applications of Noncommutative Harmonic Analysis brings this powerful tool to the engineering world Written specifically for engineers and computer scientists it offers a practical treatment of harmonic analysis in the context of particular Lie groups rotation and Euclidean motion It presents only a limited number of proofs focusing instead on providing a review of the fundamental mathematical results unknown to most engineers and detailed discussions of specific applications Advances in pure mathematics can lead to very tangible advances in engineering but only if they are available and accessible to engineers Engineering Applications of Noncommutative Harmonic Analysis provides the means for adding this valuable and effective technique to the engineer s toolbox

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