



Second Edition

# **Topics in Contemporary Mathematical Physics**

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# Topics In Contemporary Mathematical Physics

**Lingjun Ying**



## **Topics In Contemporary Mathematical Physics:**

*Topics in Contemporary Mathematical Physics* Kai S. Lam, 2003 This textbook pitched at the advanced undergraduate to beginning graduate level focuses on mathematical topics of relevance in contemporary physics that are not usually covered in texts at the same level Its main purpose is to help students appreciate and take advantage of the modern trend of very productive symbiosis between physics and mathematics Three major areas are covered 1 linear operators 2 group representations and Lie algebra representations 3 topology and differential geometry The following are noteworthy features of this book the style of exposition is a fusion of those common in the standard physics and mathematics literatures the level of exposition varies from quite elementary to moderately advanced so that the book is of interest to a wide audience despite the diversity of the topics covered there is a strong degree of thematic unity much care is devoted to detailed cross referencing so that from any part of the book the reader can trace easily where specific concepts or techniques are introduced

Topics In Contemporary Mathematical Physics (Second Edition) Kai S Lam, 2015-09-17 This new second edition contains a general treatment of quantum field theory QFT in a simple scalar field setting in addition to the modern material on the applications of differential geometry and topology group theory and the theory of linear operators to physics found in the first edition All these are introduced without assuming more background on the part of the reader than a good foundation in undergraduate junior level mathematical physics The new material entirely focuses on an introduction to quantum field theory emphasizing the Feynman path functional integral approach to QFT and the renormalization group With respect to the latter the focus is on an introduction of its application to critical phenomena in statistical physics following the outgrowth of the Callan Symanzik equation originally developed in the context of high energy physics and the seminal contributions of Kenneth Wilson One of the overriding aims of the new material is also to draw students attention to the deep connections between high energy physics and statistical mechanics The unavoidable technical aspects are explained with a minimum of prerequisite material and jargon and conceptual understanding is always given prominence before mastery of technical details but the importance of the latter is never underestimated Derivational details and motivational discussions are provided in abundance in order to ensure continuity of reading and to avoid trying the readers patience

**Topics in Contemporary Differential Geometry, Complex Analysis and Mathematical Physics** Stancho Dimiev, Kouei Sekigawa, 2007 This volume contains the contributions by the participants in the eight of a series workshops in complex analysis differential geometry and mathematical physics and related areas Active specialists in mathematical physics contribute to the volume providing not only significant information for researchers in the area but also interesting mathematics for non specialists and a broader audience The contributions treat topics including differential geometry partial differential equations integrable systems and mathematical physics

A Course in Modern Mathematical Physics Peter Szekeres, 2004-12-16 This textbook first published in 2004 provides an introduction to the major mathematical structures

used in physics today      Methods of Contemporary Mathematical Statistical Physics Marek Biskup, 2009-03-25 This volume presents a collection of courses introducing the reader to the recent progress with attention being paid to laying solid grounds and developing various basic tools An introductory chapter on lattice spin models is useful as a background for other lectures of the collection The topics include new results on phase transitions for gradient lattice models with introduction to the techniques of the reflection positivity stochastic geometry reformulation of classical and quantum Ising models the localization delocalization transition for directed polymers A general rigorous framework for theory of metastability is presented and particular applications in the context of Glauber and Kawasaki dynamics of lattice models are discussed A pedagogical account of several recently discussed topics in nonequilibrium statistical mechanics with an emphasis on general principles is followed by a discussion of kinetically constrained spin models that are reflecting important peculiar features of glassy dynamics

A Course in Modern Mathematical Physics Peter Szekeres, 2004 This book provides an introduction to the major mathematical structures used in physics today It covers the concepts and techniques needed for topics such as group theory Lie algebras topology Hilbert space and differential geometry Important theories of physics such as classical and quantum mechanics thermodynamics and special and general relativity are also developed in detail and presented in the appropriate mathematical language The book is suitable for advanced undergraduate and beginning graduate students in mathematical and theoretical physics as well as applied mathematics It includes numerous exercises and worked examples to test the reader's understanding of the various concepts as well as extending the themes covered in the main text The only prerequisites are elementary calculus and linear algebra No prior knowledge of group theory abstract vector spaces or topology is required

*Contents of Contemporary Mathematical Journals*, 1974      *Contemporary Problems In Mathematical Physics - Proceedings Of The Second International Workshop* Jan Govaerts, M Norbert Hounkonnou, Alfred Z Msezane, 2002-10-18 The following topics are discussed in this volume recent developments in operator theory coherent states and wavelet analysis geometric and topological methods in theoretical physics and quantum field theory and applications of these methods of mathematical physics to problems in atomic and molecular physics as well as the world of the elementary particles and their fundamental interactions Two extensive sets of lecture notes on quantization techniques in general and quantum gauge theories and strings as an avenue towards quantum geometry are also included The volume should be of interest to anyone working in a field using the mathematical methods associated with any of these topics

*Contemporary Mathematical Physics* R. L. Dobrushin, 1996 This first of a two volume collection is a celebration of the scientific heritage of F A Berezin 1931-1980 Before his untimely death Berezin had an important influence on physics and mathematics discovering new ideas in mathematical physics representation theory analysis geometry and other areas of mathematics His crowning achievements were the introduction of a new notion of deformation quantization and Grassmannian analysis supermathematics Collected here are papers by his many of his colleagues and others who worked in

related areas representing a wide spectrum of topics      *Topics in the Geometric Theory of Linear Systems* Robert Hermann,1984      **New Trends in Mathematical Physics** Vlasdas Sidoravicius,2009-08-31 This book collects selected papers written by invited and plenary speakers of the 15th International Congress on Mathematical Physics ICMP in the aftermath of the conference In extensive review articles and expository texts as well as advanced research articles the world leading experts present the state of the art in modern mathematical physics New mathematical concepts and ideas are introduced by prominent mathematicalphysicists and mathematicians covering among others the fields of Dynamical Systems Operator Algebras Partial Differential Equations Probability Theory Random Matrices Condensed Matter Physics Statistical Mechanics General Relativity Quantum Mechanics Quantum Field Theory Quantum Information and String Theory All together the contributions in this book give a panoramic view of the latest developments in mathematical physics They will help readers with a general interest in mathematical physics to get an update on the most recent developments in their field and give a broad overview on actual and future research directions in this fascinating and rapidly expanding area      *A Short Course on Banach Space Theory* N. L. Carothers,2005 Publisher Description      **Adventures in Mathematical Physics** Jean-Michel Combes,François Germinet,2007 This volume consists of refereed research articles written by some of the speakers at this international conference in honor of the sixty fifth birthday of Jean Michel Combes The topics span modern mathematical physics with contributions on state of the art results in the theory of random operators including localization for random Schrodinger operators with general probability measures random magnetic Schrodinger operators and interacting multiparticle operators with random potentials transport properties of Schrodinger operators and classical Hamiltonian systems equilibrium and nonequilibrium properties of open quantum systems semiclassical methods for multiparticle systems and long time evolution of wave packets modeling of nanostructures properties of eigenfunctions for first order systems and solutions to the Ginzburg Landau system effective Hamiltonians for quantum resonances quantum graphs including scattering theory and trace formulas random matrix theory and quantum information theory Graduate students and researchers will benefit from the accessibility of these articles and their current bibliographies

*Contemporary Problems In Mathematical Physics - Proceedings Of The First International Workshop* Jan Govaerts,M Norbert Hounkonnou,William A Lester,2000-04-05 The topics discussed include recent developments in operator theory and orthogonal polynomials coherent states and wavelet analysis geometric methods in theoretical physics and quantum field theory and the application of these methods of mathematical physics to problems in atomic and molecular physics as well as the world of the elementary particles and their fundamental interactions This volume should be of interest to anyone working in a field using the mathematical methods of any of these general topics      Dialogues Between Physics and Mathematics Mo-Lin Ge,Yang-Hui He,2022-12-10 This volume celebrates the 100th birthday of Professor Chen Ning Frank Yang Nobel 1957 one of the giants of modern science and a living legend Starting with reminiscences of Yang s time at the research

centre for theoretical physics at Stonybrook now named C N Yang Institute by his successor Peter van Nieuwenhuizen the book is a collection of articles by world renowned mathematicians and theoretical physicists This emphasizes the Dialogue Between Physics and Mathematics that has been a central theme of Professor Yang s contributions to contemporary science Fittingly the contributions to this volume range from experimental physics to pure mathematics via mathematical physics On the physics side the contributions are from Sir Anthony Leggett Nobel 2003 Jian Wei Pan Willis E Lamb Award 2018 Alexander Polyakov Breakthrough Prize 2013 Gerard t Hooft Nobel 1999 Frank Wilczek Nobel 2004 Qikun Xue Fritz London Prize 2020 and Zhongxian Zhao Bernd T Matthias Prize 2015 covering an array of topics from superconductivity to the foundations of quantum mechanics In mathematical physics there are contributions by Sir Roger Penrose Nobel 2022 and Edward Witten Fields Medal 1990 on quantum twistors and quantum field theory respectively On the mathematics side the contributions by Vladimir Drinfeld Fields Medal 1990 Louis Kauffman Wiener Gold Medal 2014 and Yuri Manin Cantor Medal 2002 offer novel ideas from knot theory to arithmetic geometry Inspired by the original ideas of C N Yang this unique collection of papers b masters of physics and mathematics provides at the highest level contemporary research directions for graduate students and experts alike

*Mathematical Physics* Sadri Hassani,2002-02-08 For physics students interested in the mathematics they use and for math students interested in seeing how some of the ideas of their discipline find realization in an applied setting The presentation strikes a balance between formalism and application between abstract and concrete The interconnections among the various topics are clarified both by the use of vector spaces as a central unifying theme recurring throughout the book and by putting ideas into their historical context Enough of the essential formalism is included to make the presentation self contained

**Methods of Mathematical Physics** Alexey N. Karapetyants,Vladislav V. Kravchenko,2022-11-17 This textbook provides a thorough overview of mathematical physics highlighting classical topics as well as recent developments Readers will be introduced to a variety of methods that reflect current trends in research including the Bergman kernel approach for solving boundary value and spectral problems for PDEs with variable coefficients With its careful treatment of the fundamentals as well as coverage of topics not often encountered in textbooks this will be an ideal text for both introductory and more specialized courses The first five chapters present standard material including the classification of PDEs an introduction to boundary value and initial value problems and an introduction to the Fourier method of separation of variables More advanced material and specialized treatments follow including practical methods for solving direct and inverse Sturm Liouville problems the theory of parabolic equations harmonic functions potential theory integral equations and the method of non orthogonal series

Methods of Mathematical Physics is ideal for undergraduate students and can serve as a textbook for a regular course in equations of mathematical physics as well as for more advanced courses on selected topics

*Mathematical Reviews* ,2004

**Mathematical Methods** Sadri Hassani,2013-11-11 Intended to follow the usual introductory physics courses this book has the unique feature of addressing the mathematical needs of sophomores

and juniors in physics engineering and other related fields Beginning with reviews of vector algebra and differential and integral calculus the book continues with infinite series vector analysis complex algebra and analysis ordinary and partial differential equations Discussions of numerical analysis nonlinear dynamics and chaos and the Dirac delta function provide an introduction to modern topics in mathematical physics This new edition has been made more user friendly through organization into convenient shorter chapters Also it includes an entirely new section on Probability and plenty of new material on tensors and integral transforms Some praise for the previous edition The book has many strengths For example Each chapter starts with a preamble that puts the chapters in context Often the author uses physical examples to motivate definitions illustrate relationships or culminate the development of particular mathematical strands The use of Maxwell's equations to cap the presentation of vector calculus a discussion that includes some tidbits about what led Maxwell to the displacement current is a particularly enjoyable example Historical touches like this are not isolated cases the book includes a large number of notes on people and ideas subtly reminding the student that science and mathematics are continuing and fascinating human activities Physics Today Very well written i e extremely readable very well targeted mainly to an average student of physics at a point of just leaving his/her sophomore level and very well concentrated to an author's apparently beloved subject of PDE's with applications and with all their necessary pedagogically mathematical background The main merits of the text are its clarity achieved via returns and innovations of the context balance building the subject step by step and originality recollect the existence of the complex numbers is only admitted far in the second half of the text Last but not least the student reader is impressed by the graphical quality of the text figures first of all but also boxes with the essentials summarizing comments in the left column etc Summarizing Well done Zentralblatt MATH

Aspects of Quantum Field Theory in Curved Spacetime Stephen A. Fulling, 1989-08-24 The theory of quantum fields on curved spacetimes has attracted great attention since the discovery by Stephen Hawking of black hole evaporation It remains an important subject for the understanding of such contemporary topics as inflationary cosmology quantum gravity and superstring theory This book provides for mathematicians an introduction to this field of physics in a language and from a viewpoint which such a reader should find congenial Physicists should also gain from reading this book a sound grasp of various aspects of the theory some of which have not been particularly emphasised in the existing review literature The topics covered include normal mode expansions for a general elliptic operator Fock space the Casimir effect the Klein paradox particle definition and particle creation in expanding universes asymptotic expansion of Green's functions and heat kernels and renormalisation of the stress tensor The style is pedagogic rather than formal some knowledge of general relativity and differential geometry is assumed but the author does supply background material on functional analysis and quantum field theory as required The book arose from a course taught to graduate students and could be used for self study or for advanced courses in relativity and quantum field theory

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