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TEXTS AND READINGS
IN MATHEMATICS **22**

**A Course in
Differential Geometry
and Lie Groups**

S. Kumaresan

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Course In Differential Geometry And Lie Groups

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Course In Differential Geometry And Lie Groups:

A Course in Differential Geometry and Lie Groups S. Kumaresan, 2002-01-15 **Differential Geometry and Lie Groups** Jean Gallier, Jocelyn Quaintance, 2020-08-18 This textbook explores advanced topics in differential geometry chosen for their particular relevance to modern geometry processing Analytic and algebraic perspectives augment core topics with the authors taking care to motivate each new concept Whether working toward theoretical or applied questions readers will appreciate this accessible exploration of the mathematical concepts behind many modern applications Beginning with an in depth study of tensors and differential forms the authors go on to explore a selection of topics that showcase these tools An analytic theme unites the early chapters which cover distributions integration on manifolds and Lie groups spherical harmonics and operators on Riemannian manifolds An exploration of bundles follows from definitions to connections and curvature in vector bundles culminating in a glimpse of Pontrjagin and Chern classes The final chapter on Clifford algebras and Clifford groups draws the book to an algebraic conclusion which can be seen as a generalized viewpoint of the quaternions **Differential Geometry and Lie Groups A Second Course** captures the mathematical theory needed for advanced study in differential geometry with a view to furthering geometry processing capabilities Suited to classroom use or independent study the text will appeal to students and professionals alike A first course in differential geometry is assumed the authors companion volume **Differential Geometry and Lie Groups A Computational Perspective** provides the ideal preparation **Differential Geometry and Lie Groups** Jean Gallier, Jocelyn Quaintance, 2020-08-14 This textbook offers an introduction to differential geometry designed for readers interested in modern geometry processing Working from basic undergraduate prerequisites the authors develop manifold theory and Lie groups from scratch fundamental topics in Riemannian geometry follow culminating in the theory that underpins manifold optimization techniques Students and professionals working in computer vision robotics and machine learning will appreciate this pathway into the mathematical concepts behind many modern applications Starting with the matrix exponential the text begins with an introduction to Lie groups and group actions Manifolds tangent spaces and cotangent spaces follow a chapter on the construction of manifolds from gluing data is particularly relevant to the reconstruction of surfaces from 3D meshes Vector fields and basic point set topology bridge into the second part of the book which focuses on Riemannian geometry Chapters on Riemannian manifolds encompass Riemannian metrics geodesics and curvature Topics that follow include submersions curvature on Lie groups and the Log Euclidean framework The final chapter highlights naturally reductive homogeneous manifolds and symmetric spaces revealing the machinery needed to generalize important optimization techniques to Riemannian manifolds Exercises are included throughout along with optional sections that delve into more theoretical topics **Differential Geometry and Lie Groups A Computational Perspective** offers a uniquely accessible perspective on differential geometry for those interested in the theory behind modern computing applications Equally suited to classroom use or independent study the text will appeal

to students and professionals alike only a background in calculus and linear algebra is assumed Readers looking to continue on to more advanced topics will appreciate the authors companion volume Differential Geometry and Lie Groups A Second Course

Topics in Differential Geometry Peter W. Michor, 2008 This book treats the fundamentals of differential geometry manifolds flows Lie groups and their actions invariant theory differential forms and de Rham cohomology bundles and connections Riemann manifolds isometric actions and symplectic and Poisson geometry It gives the careful reader working knowledge in a wide range of topics of modern coordinate free differential geometry in not too many pages A prerequisite for using this book is a good knowledge of undergraduate analysis and linear algebra BOOK JACKET

Manifolds and Differential Geometry Jeffrey M. Lee, 2022-03-08 Differential geometry began as the study of curves and surfaces using the methods of calculus In time the notions of curve and surface were generalized along with associated notions such as length volume and curvature At the same time the topic has become closely allied with developments in topology The basic object is a smooth manifold to which some extra structure has been attached such as a Riemannian metric a symplectic form a distinguished group of symmetries or a connection on the tangent bundle This book is a graduate level introduction to the tools and structures of modern differential geometry Included are the topics usually found in a course on differentiable manifolds such as vector bundles tensors differential forms de Rham cohomology the Frobenius theorem and basic Lie group theory The book also contains material on the general theory of connections on vector bundles and an in depth chapter on semi Riemannian geometry that covers basic material about Riemannian manifolds and Lorentz manifolds An unusual feature of the book is the inclusion of an early chapter on the differential geometry of hypersurfaces in Euclidean space There is also a section that derives the exterior calculus version of Maxwell s equations The first chapters of the book are suitable for a one semester course on manifolds There is more than enough material for a year long course on manifolds and geometry

Differential Geometry, Lie Groups and Symmetric Spaces over General Base Fields and Rings Wolfgang Bertram, 2008 The aim of this work is to lay the foundations of differential geometry and Lie theory over the general class of topological base fields and rings for which a differential calculus has been developed without any restriction on the dimension or on the characteristic Two basic features distinguish the author s approach from the classical real finite or infinite dimensional theory namely the interpretation of tangent and jet functors as functors of scalar extensions and the introduction of multilinear bundles and multilinear connections which generalize the concept of vector bundles and linear connections

Quantenmechanik I Oliver Tennert, 2024-05-17 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebude der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der erste Band beginnt mit einer anekdotenreichen und spannenden historischen berblicksdarstellung die die Hauptprotagonisten der Quantentheorie und wichtige Meilensteine ihres Wirkens vorstellt Im Folgenden wird dann die Formulierung im Hilbert Raum axiomatisch entwickelt und wichtige Grundlagenthemen behandelt

die eindimensionalen Probleme der harmonische Oszillator und die WKB Näherung als Bindeglied zur klassischen Physik Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind die frühe Entwicklung von Propagatormethoden die ausführliche mathematische Behandlung von kohärenten und gequetschten Zuständen des harmonischen Oszillators sowie die gründliche Untersuchung des klassischen Grenzfalles Inhalt 1 Historischer Abriss Der Weg zur Quantenmechanik 2 Der theoretische Formalismus der Quantenmechanik 3 Eindimensionale Probleme 4 Der harmonische Oszillator in der Quantenmechanik 5 Die WKB Näherung und der klassische Grenzfall Zielgruppe Das Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bibliothekregal einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie

Several Complex Variables with Connections to Algebraic Geometry and Lie Groups Joseph L. Taylor, 2025-03-21

This text presents an integrated development of the theory of several complex variables and complex algebraic geometry leading to proofs of Serre's celebrated GAGA theorems relating the two subjects and including applications to the representation theory of complex semisimple Lie groups It includes a thorough treatment of the local theory using the tools of commutative algebra an extensive development of sheaf theory and the theory of coherent analytic and algebraic sheaves proofs of the main vanishing theorems for these categories of sheaves and a complete proof of the finite dimensionality of the cohomology of coherent sheaves on compact varieties The vanishing theorems have a wide variety of applications and these are covered in detail Of particular interest are the last three chapters which are devoted to applications of the preceding material to the study of the structure and representations of complex semisimple Lie groups Included are introductions to harmonic analysis the Peter Weyl theorem Lie theory and the structure of Lie algebras semisimple Lie algebras and their representations algebraic groups and the structure of complex semisimple Lie groups All of this culminates in Milnor's proof of the Borel-Weil-Bott theorem which makes extensive use of the material developed earlier in the text There are numerous examples and exercises in each chapter This modern treatment of a classic point of view would be an excellent text for a graduate course on several complex variables as well as a useful reference for the expert

Differential Geometry and Lie Groups Jean Gallier, Jocelyn Quaintance, This textbook set offers both an introduction to differential geometry designed for readers interested in modern geometry processing as well as an exploration of more advanced topics In the first volume the authors work from basic undergraduate prerequisites to develop manifold theory and Lie groups from scratch fundamental topics in Riemannian geometry follow culminating in the theory that underpins manifold optimization techniques Students and professionals working in computer vision robotics and machine learning will appreciate this

pathway into the mathematical concepts behind many modern applications The second volume then uses analytic and algebraic perspectives to augment core topics with the authors taking care to motivate each new concept Whether working toward theoretical or applied questions readers will appreciate this accessible exploration of the mathematical concepts behind many modern applications The first volume *Differential Geometry and Lie Groups A Computational Perspective* offers a uniquely accessible perspective on differential geometry for those interested in the theory behind modern computing applications Equally suited to classroom use or independent study the text will appeal to students and professionals alike only a background in calculus and linear algebra is assumed Volume two *Differential Geometry and Lie Groups A Second Course* captures the mathematical theory needed for advanced study in differential geometry with a view to furthering geometry processing capabilities As with the first this volume is suitable for both classroom use and independent study

Representation Theory of Finite Groups: Algebra and Arithmetic Steven H. Weintraub, 2003 We explore widely in the valley of ordinary representations and we take the reader over the mountain pass leading to the valley of modular representations to a point from which s he can survey this valley but we do not attempt to widely explore it We hope the reader will be sufficiently fascinated by the scenery to further explore both valleys on his her own from the Preface Representation theory plays important roles in geometry algebra analysis and mathematical physics In particular representation theory has been one of the great tools in the study and classification of finite groups There are some beautiful results that come from representation theory Frobenius s Theorem Burnside s Theorem Artin s Theorem Brauer s Theorem all of which are covered in this textbook Some seem uninspiring at first but prove to be quite useful Others are clearly deep from the outset And when a group finite or otherwise acts on something else as a set of symmetries for example one ends up with a natural representation of the group This book is an introduction to the representation theory of finite groups from an algebraic point of view regarding representations as modules over the group algebra The approach is to develop the requisite algebra in reasonable generality and then to specialize it to the case of group representations Methods and results particular to group representations such as characters and induced representations are developed in depth Arithmetic comes into play when considering the field of definition of a representation especially for subfields of the complex numbers The book has an extensive development of the semisimple case where the characteristic of the field is zero or is prime to the order of the group and builds the foundations of the modular case where the characteristic of the field divides the order of the group The book assumes only the material of a standard graduate course in algebra It is suitable as a text for a year long graduate course The subject is of interest to students of algebra number theory and algebraic geometry The systematic treatment presented here makes the book also valuable as a reference

Finite Group Theory I. Martin Isaacs, 2023-01-24 The text begins with a review of group actions and Sylow theory It includes semidirect products the Schur Zassenhaus theorem the theory of commutators coprime actions on groups transfer theory Frobenius groups primitive and multiply transitive

permutation groups the simplicity of the PSL groups the generalized Fitting subgroup and also Thompson's J subgroup and his normal p complement theorem Topics that seldom or never appear in books are also covered These include subnormality theory a group theoretic proof of Burnside's theorem about groups with order divisible by just two primes the Wielandt automorphism tower theorem Yoshida's transfer theorem the principal ideal theorem of transfer theory and many smaller results that are not very well known Proofs often contain original ideas and they are given in complete detail In many cases they are simpler than can be found elsewhere The book is largely based on the author's lectures and consequently the style is friendly and somewhat informal Finally the book includes a large collection of problems at disparate levels of difficulty These should enable students to practice group theory and not just read about it Martin Isaacs is professor of mathematics at the University of Wisconsin Madison Over the years he has received many teaching awards and is well known for his inspiring teaching and lecturing He received the University of Wisconsin Distinguished Teaching Award in 1985 the Benjamin Smith Reynolds Teaching Award in 1989 and the Wisconsin Section MAA Teaching Award in 1993 to name only a few He was also honored by being the selected MAA Pólya Lecturer in 2003 2005 **Functional Analysis** Yuli Eidelman, Vitali D.

Milman, Antonis Tsoolomitis, 2004 Introduces the methods and language of functional analysis including Hilbert spaces Fredholm theory for compact operators and spectral theory of self adjoint operators This work presents the theorems and methods of abstract functional analysis and applications of these methods to Banach algebras and theory of unbounded self adjoint operators **Quantenmechanik III** Oliver Tennert, 2024-05-16 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebäude der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der dritte Band stellt wichtige Näherungsverfahren für zeitunabhängige Probleme vor und führt anschließend die Behandlung zeitabhängiger Systeme hin zum großen Themengebiet der Streutheorie Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind die Ableitung emergenter Eichtheorien aus der Born Oppenheimer Näherung heraus die exakte Lösung für das Wasserstoffmolekül Ion als Zwei Zentren Problem und für das Coulomb Streuproblem sowie die Untersuchung der analytischen Struktur der S Matrix einschließlich der Herleitung wichtiger Dispersionsrelationen Inhalt 1 Näherungsverfahren für gebundene Zustände 2 Zeitabhängige Systeme und Bergänge 3 Streutheorie Zielgruppe Das Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bibliothekregal einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie **Differential Geometry** Victor V. Prasolov, 2022-02-10 This book combines the classical and contemporary approaches to differential geometry An introduction to the Riemannian geometry of manifolds is

preceded by a detailed discussion of properties of curves and surfaces The chapter on the differential geometry of plane curves considers local and global properties of curves evolutes and involutes and affine and projective differential geometry Various approaches to Gaussian curvature for surfaces are discussed The curvature tensor conjugate points and the Laplace Beltrami operator are first considered in detail for two dimensional surfaces which facilitates studying them in the many dimensional case A separate chapter is devoted to the differential geometry of Lie groups

Introduction to Differential Geometry Joel W. Robbin, Dietmar A. Salamon, 2022-01-12 This textbook is suitable for a one semester lecture course on differential geometry for students of mathematics or STEM disciplines with a working knowledge of analysis linear algebra complex analysis and point set topology The book treats the subject both from an extrinsic and an intrinsic view point The first chapters give a historical overview of the field and contain an introduction to basic concepts such as manifolds and smooth maps vector fields and flows and Lie groups leading up to the theorem of Frobenius Subsequent chapters deal with the Levi Civita connection geodesics the Riemann curvature tensor a proof of the Cartan Ambrose Hicks theorem as well as applications to flat spaces symmetric spaces and constant curvature manifolds Also included are sections about manifolds with nonpositive sectional curvature the Ricci tensor the scalar curvature and the Weyl tensor An additional chapter goes beyond the scope of a one semester lecture course and deals with subjects such as conjugate points and the Morse index the injectivity radius the group of isometries and the Myers Steenrod theorem and Donaldson s differential geometric approach to Lie algebra theory

Quantenmechanik II Oliver Tennert, 2024-05-22 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebude der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der zweite Band behandelt den quantenmechanischen Drehimpuls sowie Symmetrien in der nichtrelativistischen Quantenmechanik Anschließend wird das wichtige Anwendungsgebiet der dreidimensionalen Probleme sowohl auf algebraischem Wege als auch mit analytischen Methoden untersucht Es schließen sich Kapitel zu Teilchen in elektromagnetischen Feldern und zum großen Themenkomplex identischer Teilchen an welcher nahtlos zur Feldquantisierung weiterführt Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einscheitern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind der algebraische Beweis zur Ganzzahligkeit des Bahndrehimpulses die ausführliche Untersuchung des Zusammenhangs zwischen Clifford Algebren und Spinoren sowie ein Linearisierungsansatz für die Schrödinger Gleichung Die Mathematik der Eichtheorien bietet eine zusammenhängende Formulierung sehr vieler topologischer Phänomene wie magnetischer Monopole des Aharonov Bohm Effekts oder von Landau Niveaus Inhalt 1 Theorie des Drehimpulses I 2 Symmetrien in der Quantenmechanik I 3 Dreidimensionale Probleme 4 Teilchen in elektromagnetischen Feldern 5 Theorie des Drehimpulses II 6 Identische Teilchen und nichtrelativistische Quantenfeldtheorie Zielgruppe Das Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und

Bezogen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bachelorregal einer in der Physik tätigen Person. Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie.

Quantenmechanik IV Oliver Tennert, 2024-05-17 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebäude der nichtrelativistischen Quantenmechanik, weshalb sie auch bestens als Nachschlagewerk geeignet sind. Der vierte Band beginnt mit einem ausführlichen Kapitel zur nichtrelativistischen Quantenelektrodynamik (QED), traditionell als Quantentheorie der Strahlung bezeichnet, und leitet dann über in die relativistische Quantentheorie. Eine sorgfältige Behandlung der Möglichkeiten und Grenzen einer relativistischen Quantenmechanik sowie eine gründliche Untersuchung von Symmetrien in der relativistischen Quantentheorie schließen das Lehrbuch ab. Besonderheiten: Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt. Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge. Besondere Highlights des Buches sind eine ausführliche Diskussion der Lamb-Verschiebung und des Casimir-Effekts einschließlich der in diesem Zusammenhang offenbar werdenden Problematik der Renormierung sowie die Analyse der Einteilchen-Interpretation in der relativistischen Quantenmechanik und die Betrachtung von Gruppenkontraktionen im Übergang von relativistischen zu nichtrelativistischen Symmetriegruppen und ihrer Darstellungen.

Inhalt: 1. Quantisierung des elektromagnetischen Feldes 2. Relativistische Quantenmechanik 3. Symmetrien in der Quantenmechanik II Zielgruppe: Das Buch richtet sich sowohl an Bachelor- als auch an Masterstudierende sowie ihre Lehrenden. Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezogen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bachelorregal einer in der Physik tätigen Person. Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie.

Gravitation I Oliver Tennert, 2025-04-25 Die zwei Bände dieses Lehrbuchs entwickeln und vertiefen auf umfassende Weise das Gebäude der Allgemeinen Relativitätstheorie (ART). Aufgrund der großen inhaltlichen Breite dienen sie auch hervorragend als Nachschlagewerk. Besonderheiten: Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt. Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge. Besondere Highlights des Buches sind die Erarbeitung der differentialgeometrischen Grundlagen, die frühe Diskussion allgemeiner Raumzeit-Strukturen wie geodetischer Kongruenzen der Kausalstruktur und der Petrov-Klassifizierung von Raumzeiten sowie der Energie-Impuls-Pseudotensoren, eine ausführliche Betrachtung gravito-elektromagnetischer Effekte sowie die gründliche Untersuchung des raumartigen Wurmlochs der Kruskal-Raumzeit.

Inhalt: 1. Historischer Abriss: Eine kurze Geschichte der Allgemeinen Relativitätstheorie 2. Die Grundlegung der Allgemeinen Relativitätstheorie 3. Allgemeine Eigenschaften von Raumzeiten 4. Linearisierte ART und post-Newtonsche Näherung 5. Die Schwarzschild-Lösung Zielgruppe: Das Buch richtet sich an Masterstudierende sowie ihre Lehrenden. Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezogen zu

wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bachelorstudium einer in der Physik tätigen Person. Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik der Quantenmechanik und der Speziellen Relativitätstheorie sowie der Analysis und der linearen Algebra.

An Introduction to Smooth Manifolds
 Manjusha Majumdar, Arindam Bhattacharyya, 2023-06-01 Targeted to graduate students of mathematics this book discusses major topics like the Lie group in the study of smooth manifolds. It is said that mathematics can be learned by solving problems and not only by just reading it. To serve this purpose this book contains a sufficient number of examples and exercises after each section in every chapter. Some of the exercises are routine ones for the general understanding of topics. The book also contains hints to difficult exercises. Answers to all exercises are given at the end of each section. It also provides proofs of all theorems in a lucid manner. The only prerequisites are good working knowledge of point set topology and linear algebra.

Lie-Gruppen und Lie-Algebren in der Physik
 Manfred Böhm, 2011-07-28 Dieses Lehrbuch führt in die Theorie der Lie Gruppen ein und ist ein unverzichtbares Werkzeug in der Quantenmechanik bei den Eichtheorien und der Quantenchromodynamik. Die Auseinandersetzung mit mathematischen Gruppen im Rahmen der Physik ist darin begründet, dass deren algebraische Struktur zusammen mit deren Darstellungen die wesentliche Grundlage bilden, um die Eigenschaften von Symmetrien zu beschreiben. Nach grundlegenden Kapiteln über Gruppen und algebraische Darstellung wird eine umfassende Einführung in Lie Gruppen und Lie Algebren gegeben. Im Anschluss werden die Kenntnisse anhand der Darstellung und Berechnung weiterführender Lie Algebren vertieft.

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