

# Graduate Texts in Mathematics

*Readings in Mathematics*

**William Fulton  
Joe Harris**

## **Representation Theory**

**A First Course**



Springer

# Representation Theory A First Course

**William Fulton, Joe Harris**



## **Representation Theory A First Course:**

Representation Theory William Fulton, Joe Harris, 1991-10-22 Introducing finite dimensional representations of Lie groups and Lie algebras this example oriented book works from representation theory of finite groups through Lie groups and Lie algebras to the finite dimensional representations of the classical groups

**Representation Theory** William Fulton, Joe Harris, 1991

**Representation Theory** William Fulton, Joe Harris, 1991-10-22 The primary goal of these lectures is to introduce a beginner to the finite dimensional representations of Lie groups and Lie algebras Since this goal is shared by quite a few other books we should explain in this Preface how our approach differs although the potential reader can probably see this better by a quick browse through the book Representation theory is simple to define it is the study of the ways in which a given group may act on vector spaces It is almost certainly unique however among such clearly delineated subjects in the breadth of its interest to mathematicians This is not surprising group actions are ubiquitous in 20th century mathematics and where the object on which a group acts is not a vector space we have learned to replace it by one that is e.g. a cohomology group tangent space etc As a consequence many mathematicians other than specialists in the field or even those who think they might want to be come in contact with the subject in various ways It is for such people that this text is designed To put it another way we intend this as a book for beginners to learn from and not as a reference This idea essentially determines the choice of material covered here As simple as is the definition of representation theory given above it fragments considerably when we try to get more specific

*Representation Theory* William Fulton, Joe Harris, 1991-10-22 Introducing finite dimensional representations of Lie groups and Lie algebras this example oriented book works from representation theory of finite groups through Lie groups and Lie algebras to the finite dimensional representations of the classical groups

**A First Course on Representation Theory and Linear Lie Groups** S C Bagchi, 2000 This book is intended to serve as a textbook for a one semester course for M Sc M Phil Students at Indian universities Students of theoretical physics will also find this exposition useful The general theory of Lie groups appears formidable to an M Sc M Phil student

*Introduction to Lie Algebras and Representation Theory* J.E. Humphreys, 2012-12-06 This book is designed to introduce the reader to the theory of semisimple Lie algebras over an algebraically closed field of characteristic 0 with emphasis on representations A good knowledge of linear algebra including eigenvalues bilinear forms euclidean spaces and tensor products of vector spaces is presupposed as well as some acquaintance with the methods of abstract algebra The first four chapters might well be read by a bright undergraduate however the remaining three chapters are admittedly a little more demanding Besides being useful in many parts of mathematics and physics the theory of semisimple Lie algebras is inherently attractive combining as it does a certain amount of depth and a satisfying degree of completeness in its basic results Since Jacobson's book appeared a decade ago improvements have been made even in the classical parts of the theory I have tried to incorporate some of them here and to provide easier access to the subject for non specialists For the

specialist the following features should be noted I The Jordan Chevalley decomposition of linear transformations is emphasized with toral subalgebras replacing the more traditional Cartan subalgebras in the semisimple case 2 The conjugacy theorem for Cartan subalgebras is proved following D J Winter and G D Mostow by elementary Lie algebra methods avoiding the use of algebraic geometry

Representation Theory William Fulton, Joe Harris, 2013-12-01 The primary goal of these lectures is to introduce a beginner to the finite dimensional representations of Lie groups and Lie algebras Since this goal is shared by quite a few other books we should explain in this Preface how our approach differs although the potential reader can probably see this better by a quick browse through the book Representation theory is simple to define it is the study of the ways in which a given group may act on vector spaces It is almost certainly unique however among such clearly delineated subjects in the breadth of its interest to mathematicians This is not surprising group actions are ubiquitous in 20th century mathematics and where the object on which a group acts is not a vector space we have learned to replace it by one that is e g a cohomology group tangent space etc As a consequence many mathematicians other than specialists in the field or even those who think they might want to be come in contact with the subject in various ways It is for such people that this text is designed To put it another way we intend this as a book for beginners to learn from and not as a reference This idea essentially determines the choice of material covered here As simple as is the definition of representation theory given above it fragments considerably when we try to get more specific

**Holomorphic Functions and Integral Representations in Several Complex Variables** R. Michael Range, 1998-06-26 The subject of this book is Complex Analysis in Several Variables This text begins at an elementary level with standard local results followed by a thorough discussion of the various fundamental concepts of complex convexity related to the remarkable extension properties of holomorphic functions in more than one variable It then continues with a comprehensive introduction to integral representations and concludes with complete proofs of substantial global results on domains of holomorphy and on strictly pseudoconvex domains in  $\mathbb{C}^n$  including for example C Fefferman's famous Mapping Theorem The most important new feature of this book is the systematic inclusion of many of the developments of the last 20 years which centered around integral representations and estimates for the Cauchy Riemann equations In particular integral representations are the principal tool used to develop the global theory in contrast to many earlier books on the subject which involved methods from commutative algebra and sheaf theory and or partial differential equations I believe that this approach offers several advantages 1 it uses the several variable version of tools familiar to the analyst in one complex variable and therefore helps to bridge the often perceived gap between complex analysis in one and in several variables 2 it leads quite directly to deep global results without introducing a lot of new machinery and 3 concrete integral representations lend themselves to estimations therefore opening the door to applications not accessible by the earlier methods

Aspects Of Representation Theory And Noncommutative Harmonic Analysis Jean H Gallier, Jocelyn Quaintance, 2025-01-17 This book presents the theory of harmonic analysis for noncommutative compact

groups If  $G$  is a commutative locally compact group there is a well understood theory of harmonic analysis as discussed in Aspects of Harmonic Analysis on Locally Compact Abelian Groups If  $G$  is not commutative things are a lot tougher In the special case of a compact group there is a deep interplay between analysis and representation theory which was first discovered by Hermann Weyl and refined by Andre Weil This book presents these seminal results of Weyl and Weil Starting with the basics of representations theory it presents the famous Peter Weyl theorems and discusses Fourier analysis on compact groups This book also introduces the reader to induced representations of locally compact groups induced representations of  $G$  bundles and the theory of Gelfand pairs A special feature is the chapter on equivariant convolutional neural networks CNNs a chapter which shows how many of the abstract concepts of representations analysis on compact groups Peter Weyl theorems Fourier transform induced representations are used to tackle very practical modern day problems

*Basics of Representation Theory* Udayan Bhattacharya, 2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field

Representation Theory Amritanshu Prasad, 2015-02-05 This book examines the fundamental results of modern combinatorial representation theory The exercises are interspersed with text to reinforce readers understanding of the subject In addition each exercise is assigned a difficulty level to test readers learning Solutions and hints to most of the exercises are provided at the end

A First Course in Noncommutative Rings T.Y. Lam, 2012-12-06 One of my favorite graduate courses at Berkeley is Math 251 a one semester course in ring theory offered to second year level graduate students I taught this course in the Fall of 1983 and more recently in the Spring of 1990 both times focusing on the theory of noncommutative rings This book is an outgrowth of my lectures in these two courses and is intended for use by instructors and graduate students in a similar one semester

course in basic ring theory Ring theory is a subject of central importance in algebra Historically some of the major discoveries in ring theory have helped shape the course of development of modern abstract algebra Today ring theory is a fertile meeting ground for group theory group rings representation theory modules functional analysis operator algebras Lie theory enveloping algebras algebraic geometry finitely generated algebras differential operators invariant theory arithmetic orders Brauer groups universal algebra varieties of rings and homological algebra cohomology of rings projective modules Grothendieck and higher K groups In view of these basic connections between ring theory and other branches of mathematics it is perhaps no exaggeration to say that a course in ring theory is an indispensable part of the education for any fledgling algebraist The purpose of my lectures was to give a general introduction to the theory of rings building on what the students have learned from a standard first year graduate course in abstract algebra

### **Groups and Representations** J.L.

Alperin, Rowen B. Bell, 2012-12-06 The aim of this book is to provide a concise treatment of some topics from group theory and representation theory for a one term course It focuses on the non commutative side of the field emphasizing the general linear group as the most important group and example The book will enable graduate students from every mathematical field as well as strong undergraduates with an interest in algebra to solidify their knowledge of group theory The reader should have a familiarity with groups rings and fields along with a solid knowledge of linear algebra Close to 200 exercises of varying difficulty serve both to reinforce the main concept of the text and to expose the reader to additional topics

**Representations of Compact Lie Groups** T. Bröcker, T. tom Dieck, 2003-06-02 This introduction to the representation theory of compact Lie groups follows Herman Weyl's original approach It discusses all aspects of finite dimensional Lie theory consistently emphasizing the groups themselves Thus the presentation is more geometric and analytic than algebraic It is a useful reference and a source of explicit computations Each section contains a range of exercises and 24 figures help illustrate geometric concepts

**A First Course in Modular Forms** Fred Diamond, Jerry Shurman, 2006-03-30 This book introduces the theory of modular forms with an eye toward the Modularity Theorem All rational elliptic curves arise from modular forms The topics covered include elliptic curves as complex tori and as algebraic curves modular curves as Riemann surfaces and as algebraic curves Hecke operators and Atkin-Lehner theory Hecke eigenforms and their arithmetic properties the Jacobians of modular curves and the Abelian varieties associated to Hecke eigenforms elliptic and modular curves modulo  $p$  and the Eichler-Shimura Relation the Galois representations associated to elliptic curves and to Hecke eigenforms As it presents these ideas the book states the Modularity Theorem in various forms relating them to each other and touching on their applications to number theory A First Course in Modular Forms is written for beginning graduate students and advanced undergraduates It does not require background in algebraic number theory or algebraic geometry and it contains exercises throughout Fred Diamond received his Ph.D. from Princeton University in 1988 under the direction of Andrew Wiles and now teaches at King's College London Jerry Shurman received his Ph.D. from Princeton University in 1988 under the

direction of Goro Shimura and now teaches at Reed College      **Dirac Operators in Representation Theory** Jing-Song Huang,Pavle Pandzic,2007-05-27 This monograph presents a comprehensive treatment of important new ideas on Dirac operators and Dirac cohomology Dirac operators are widely used in physics differential geometry and group theoretic settings particularly the geometric construction of discrete series representations The related concept of Dirac cohomology which is defined using Dirac operators is a far reaching generalization that connects index theory in differential geometry to representation theory Using Dirac operators as a unifying theme the authors demonstrate how some of the most important results in representation theory fit together when viewed from this perspective An excellent contribution to the mathematical literature of representation theory this self contained exposition offers a systematic examination and panoramic view of the subject The material will be of interest to researchers and graduate students in representation theory differential geometry and physics      **An Invitation to Representation Theory** R. Michael Howe,2022-05-28 An Invitation to Representation

Theory offers an introduction to groups and their representations suitable for undergraduates In this book the ubiquitous symmetric group and its natural action on polynomials are used as a gateway to representation theory The subject of representation theory is one of the most connected in mathematics with applications to group theory geometry number theory and combinatorics as well as physics and chemistry It can however be daunting for beginners and inaccessible to undergraduates The symmetric group and its natural action on polynomial spaces provide a rich yet accessible model to study serving as a prototype for other groups and their representations This book uses this key example to motivate the subject developing the notions of groups and group representations concurrently With prerequisites limited to a solid grounding in linear algebra this book can serve as a first introduction to representation theory at the undergraduate level for instance in a topics class or a reading course A substantial amount of content is presented in over 250 exercises with complete solutions making it well suited for guided study      **A Journey Through Representation Theory** Caroline

Gruson,Vera Serganova,2018-10-23 This text covers a variety of topics in representation theory and is intended for graduate students and more advanced researchers who are interested in the field The book begins with classical representation theory of finite groups over complex numbers and ends with results on representation theory of quivers The text includes in particular infinite dimensional unitary representations for abelian groups Heisenberg groups and  $SL(2)$  and representation theory of finite dimensional algebras The last chapter is devoted to some applications of quivers including Harish Chandra modules for  $SL(2)$  Ample examples are provided and some are revisited with a different approach when new methods are introduced leading to deeper results Exercises are spread throughout each chapter Prerequisites include an advanced course in linear algebra that covers Jordan normal forms and tensor products as well as basic results on groups and rings

**Representation Theory of Finite Group Extensions** Tullio Ceccherini-Silberstein,Fabio Scarabotti,Filippo Tolli,2022-11-29 This monograph adopts an operational and functional analytic approach to the following problem given a

short exact sequence group extension  $1 \rightarrow N \rightarrow G \rightarrow H \rightarrow 1$  of finite groups describe the irreducible representations of  $G$  by means of the structure of the group extension This problem has attracted many mathematicians including I Schur A H Clifford and G Mackey and more recently M Isaacs B Huppert Y G Berkovich E M Zhmud and J M G Fell R S Doran The main topics are on the one hand Clifford Theory and the Little Group Method of Mackey and Wigner for induced representations and on the other hand Kirillov's Orbit Method for step 2 nilpotent groups of odd order which establishes a natural and powerful correspondence between Lie rings and nilpotent groups As an application a detailed description is given of the representation theory of the alternating groups of metacyclic quaternionic dihedral groups and of the finite Heisenberg group The Little Group Method may be applied if and only if a suitable unitary 2 cocycle the Mackey obstruction is trivial To overcome this obstacle unitary projective representations are introduced and corresponding Mackey and Clifford theories are developed The commutant of an induced representation and the relative Hecke algebra is also examined Finally there is a comprehensive exposition of the theory of projective representations for finite Abelian groups which is applied to obtain a complete description of the irreducible representations of finite metabelian groups of odd order

Representation Theory and Harmonic Analysis of Wreath Products of Finite Groups Tullio Ceccherini-Silberstein, Fabio Scarabotti, Filippo Tolli, 2014-01-16 This book presents an introduction to the representation theory of wreath products of finite groups and harmonic analysis on the corresponding homogeneous spaces The reader will find a detailed description of the theory of induced representations and Clifford theory focusing on a general formulation of the little group method This provides essential tools for the determination of all irreducible representations of wreath products of finite groups The exposition also includes a detailed harmonic analysis of the finite lamplighter groups the hyperoctahedral groups and the wreath product of two symmetric groups This relies on the generalised Johnson scheme a new construction of finite Gelfand pairs The exposition is completely self contained and accessible to anyone with a basic knowledge of representation theory Plenty of worked examples and several exercises are provided making this volume an ideal textbook for graduate students It also represents a useful reference for more experienced researchers



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