

# STRUCTURE REPRESENTATIONS OF SCIENCE CURRICULA

Gregory K. Lewicki

# Projective Representations Of Finite Groups

**Tullio Ceccherini-Silberstein, Fabio  
Scarabotti, Filippo Tolli**



## **Projective Representations Of Finite Groups:**

**Projective Representations of Finite Groups** Gregory Karpilovsky, 1985 This book presents a systematic account of this topic from the classical foundations established by Schur 80 years ago to current advances and developments in the field This work focuses on general methods and builds theory solidly on the study of modules over twisted group algebras and provides a wide range of skill sharpening mathematical techniques applicable to this subject Offers an understanding of projective representations of finite groups for algebraists number theorists mathematical researchers studying modern algebra and theoretical physicists

**Projective Representations of Finite Groups** How Ngee Ng, 1974

**Projective Representations of Finite Groups** Gregory Karpilovsky, **Irreducible Projective Representations of Finite Groups**, 2000

Some Contributions to the Theory of Projective Representations of Finite Groups David Edward Seedhouse, 1988

**Module Characters and Projective Representations of Finite Groups** E. Nauwelaerts, F. Van Oystaeyen, 1988

**The Degrees of Irreducible Projective Representations of Finite Groups** R. J. Higgs, 1985

*Degree Patterns of Projective Representations of Finite Groups* Donal Healy (Ph.D.), University College, Dublin. School of Mathematical Sciences, 2006

*Group Representations*, 1994-02-18 This third volume can be roughly divided into two parts The first part is devoted to the investigation of various properties of projective characters Special attention is drawn to spin representations and their character tables and to various correspondences for projective characters Among other topics projective Schur index and projective representations of abelian groups are covered The last topic is investigated by introducing a symplectic geometry on finite abelian groups The second part is devoted to Clifford theory for graded algebras and its application to the corresponding theory for group algebras The volume ends with a detailed investigation of the Schur index for ordinary representations A prominent role is played in the discussion by Brauer groups together with cyclotomic algebras and cyclic algebras

**The Brauer Splitting Theorem and Projective Representations of Finite Groups Over Rings** E. Nauwelaerts, F. Van Oystaeyen, 1986

*Extensions and Projective Representations of Finite Groups* S. Tom Dixon, 1967

*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

**Lifting Problems for Projective Representations of Finite Groups Over Number Fields** Hans Opolka, 2020 The purpose of this note is to investigate lifting problems for cocycle classes of projective representations of finite groups over a field  $k$  of characteristic 0 and to provide more detailed information in this respect if  $k$  is a number field Some examples are discussed

**Group Representations** Gregory Karpilovsky, 2016-06-06 This second volume deals with projective representations and the Schur multiplier Some further topics pertaining to projective representations will be covered in the next volume The bibliography is extensive leading the reader to various references for detailed discussions on the main topics as well as on related subjects

**Supersymmetry for Mathematicians: An Introduction** V. S. Varadarajan, An special feature of the book is the treatment in depth of the theory of spinors in all dimensions and signatures which is the basis of all developments of supergeometry both in physics and mathematics especially in quantum field theory and supergravity Jacket

**Group Theory and Physics** Shlomo Sternberg, S. Sternberg, 1995-09-07 This textbook based on courses taught at Harvard University is an introduction to group theory and its application to physics The physical applications are considered as the mathematical theory is developed so that the presentation is unusually cohesive and well motivated Many modern topics are dealt with and there is much discussion of the group  $SU_n$  and its representations This is of great significance in elementary particle physics Applications to solid state physics are also considered This stimulating account will prove to be an essential resource for senior undergraduate students and their teachers

**Group Theory and Its Application to Physical Problems** Morton Hamermesh, 2012-04-26 One of the best written most skillful expositions of group theory and its physical applications directed primarily to advanced undergraduate and graduate students in physics especially quantum physics With problems

**Space Group Representations** Nikolai B. Melnikov, Boris I. Reser, 2023-01-01 This book is devoted to the construction of space group representations their tabulation and illustration of their use Representation theory of space groups has a wide range of applications in modern physics and chemistry including studies of electron and phonon spectra structural and magnetic phase transitions spectroscopy neutron scattering and superconductivity The book presents a clear and practical method of deducing the matrices of all irreducible representations including double valued and tabulates the matrices of irreducible projective representations for all 32 crystallographic point groups One obtains the irreducible representations of all 230 space groups by multiplying the matrices presented in these compact and convenient to use tables by easily computed factors A number of applications to the electronic band structure calculations are illustrated through real life examples of

different crystal structures The book's content is accessible to both graduate and advanced undergraduate students with elementary knowledge of group theory and is useful to a wide range of experimentalists and theorists in materials and solid state physics

**An Approach to Divisibility Theorems for Irreducible Projective Representations of Finite Groups**

Neil Magnuson Bogue, 1979

Pioneers of Representation Theory: Frobenius, Burnside, Schur, and Brauer Charles W.

Curtis, 1999 The AMS History of Mathematics series is one of the most popular items for bookstore sales These books feature colorful attractive covers that are perfect for face out displays The topics will appeal to a broad audience in the mathematical and scientific communities

## **Projective Representations Of Finite Groups** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Projective Representations Of Finite Groups**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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