



PIONEERS OF REPRESENTATION THEORY: Frobenius, Burnside, Schur, and Brauer

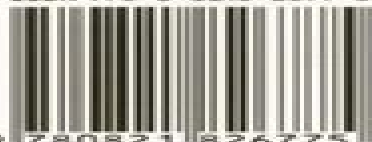
Charles W. Curtis

The year 1897 was marked by two important mathematical events: the publication of the first paper on representations of finite groups by Ferdinand Georg Frobenius (1849–1917) and the appearance of the first treatise in English on the theory of finite groups by William Burnside (1852–1927). Burnside soon developed his own approach to representations of finite groups. In the next few years, working independently, Frobenius and Burnside explored the new subject and its applications to finite group theory.

They were soon joined in this enterprise by Issai Schur (1875–1941) and some years later, by Richard Brauer (1901–1977). These mathematicians' pioneering research is the subject of this book. It presents an account of the early history of representation theory through an analysis of the published work of the principals and others with whom the principals' work was interwoven. Also included are biographical sketches and enough mathematics to enable readers to follow the development of the subject. An introductory chapter contains some of the results involving characters of finite abelian groups by Lagrange, Gauss, and Dirichlet, which were part of the mathematical tradition from which Frobenius drew his inspiration.

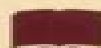
This book presents the early history of an active branch of mathematics. It includes enough detail to enable readers to learn the mathematics along with the history. The volume would be a suitable text for a course on representations of finite groups, particularly one emphasizing an historical point of view.

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Pioneers Of Representation Theory Frobenius Burnside Schur And Brauer

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Pioneers Of Representation Theory Frobenius Burnside Schur And Brauer:

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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

Zwischen zwei Disziplinen Martina Schneider, 2011-08-12 Der niederl ndischen Mathematiker van der Waerden ist vor allem f r seine Moderne Algebra bekannt Im vorliegenden Buch steht jedoch ein bisher weitgehend unerforscht gebliebenes Interessensgebiet dieses vielseitigen Wissenschaftlers im Mittelpunkt seine Beitr ge zur gruppentheoretischen Methode in der Quantenmechanik um 1930 Ihre Entstehungsgeschichte ihr Inhalt sowie ihre Wirkung werden von der Autorin detailliert herausgearbeitet und im Vergleich mit den Herangehensweisen von Wigner und Weyl kommt van der Waerdens pragmatischer Stil zum Vorschein Zugleich wird die damalige Kontroverse um den Nutzen der gruppentheoretischen Methode in ihrer ganzen Breite er rtert Nicht nur die Vielschichtigkeit von Mathematisierungsprozessen tritt hierbei offen zutage sondern auch ihre R ckwirkung auf Entwicklungen in der reinen Mathematik

Research in History and Philosophy of Mathematics Maria Zack, Elaine Landry, 2016-12-15 This volume contains seventeen papers that were presented at the 2015 Annual Meeting of the Canadian Society for History and Philosophy of Mathematics La Soci t Canadienne d Histoire et de Philosophie des Math matiques held in Washington D C In addition to showcasing rigorously reviewed modern scholarship on an interesting variety of general

topics in the history and philosophy of mathematics this meeting also honored the memories of Jacqueline Jackie Stedall and Ivor Grattan Guinness celebrated the Centennial of the Mathematical Association of America and considered the importance of mathematical communities in a special session These themes and many others are explored in these collected papers which cover subjects such as New evidence that the Latin translation of Euclid's Elements was based on the Arabic version attributed to al-jayjari Work done on the arc rampant in the seventeenth century The history of numerical methods for finding roots of nonlinear equations An original play featuring a dialogue between George Boole and Augustus De Morgan that explores the relationship between them Key issues in the digital preservation of mathematical material for future generations A look at the first twenty five years of The American Mathematical Monthly in the context of the evolving American mathematical community The growth of Math Circles and the unique ways they are being implemented in the United States Written by leading scholars in the field these papers will be accessible to not only mathematicians and students of the history and philosophy of mathematics but also anyone with a general interest in mathematics

Die Zürcher Vorlesung von Issai Schur über Darstellungstheorie Urs Stambach, 2004 *Helmut Hasse und Emmy Noether* Helmut Hasse, Emmy Noether, Franz Lemmermeyer, Peter Roquette, 2006 This book reproduces the complete extant correspondence between Emmy Noether and Helmut Hasse There are 82 such letters of which 79 are from Noether to Hasse dating from 1925 until Noether's sudden death in 1935 The correspondence reflects a crucial period in the development of 20th century algebra and number theory in particular class field theory Details of proofs appear alongside with conjectures and speculations Also discussed are questions of textbook presentation e.g. of Galois theory Aside from mathematical details the spontaneity of Noether's style allows many glimpses at the image that Emmy Noether and Helmut Hasse had of the topics they were working in The Hasse Noether correspondence is a rich source for those who are interested in the rise and the development of mathematical notions and ideas Each letter is accompanied by a detailed commentary supplied by the editors For the convenience of the reader numerous cross references extended indexes and short biographies of all persons mentioned in the correspondence have been added

Yakov G. Berkovich; Lev S. Kazarin; Emmanuel M. Zhmud': Characters of Finite Groups. Volume 2 Yakov G. Berkovich, Lev S. Kazarin, Emmanuel M. Zhmud', 2018-12-17 This updated edition of this classic book is devoted to ordinary representation theory and is addressed to finite group theorists intending to study and apply character theory It contains many exercises and examples and the list of problems contains a number of open questions

Yakov G. Berkovich; Lev S. Kazarin; Emmanuel M. Zhmud': Characters of Finite Groups. Volume 1 Yakov G. Berkovich, Lev S. Kazarin, Emmanuel M. Zhmud', 2017-12-18 This updated edition of this classic book is devoted to ordinary representation theory and is addressed to finite group theorists intending to study and apply character theory It contains many exercises and examples and the list of problems contains a number of open questions

The Collected Papers of William Burnside: Commentary on Burnside's life and work ; Papers 1883-1899 William Burnside, 2004 William Burnside was

one of the three most important algebraists who were involved in the transformation of group theory from its nineteenth century origins to a deep twentieth century subject Building on work of earlier mathematicians they were able to develop sophisticated tools for solving difficult problems All of Burnside s papers are reproduced here organized chronologically and with a detailed bibliography Walter Feit has contributed a foreword and a collection of introductory essays are included to provide a commentary on Burnside s work and set it in perspective along with a modern biography that draws on archive material Combinatorial Deformations of the Full Transformation Semigroup John Hall,2005 Aspects of Mathematics Ngaiming Mok,2001 *Bulletin of the American Mathematical Society* ,2000 *Number Theory* W. A. Coppel,2004

Contributions to Probability and Statistics Peter Brown,Shuangzhe Liu,Dharmendra Sharma,2006 Features a range of topics in modern statistical theory and methodology economics and finance ecology education health and sports studies and computer and IT data mining Some of the contributions contain illustrations of the applied methods or photos of historic mathematicians **Mathematical Reviews** ,2001 **Catalogue** American Mathematical Society,2000 **Pioneers of Representation Theory** Charles W. Curtis,1999 They were soon joined in this enterprise by Issai Schur 1875 1941 and some years later by Richard Brauer 1901 1977 These mathematicians pioneering research is the subject of this book It presents an account of the early history of representation theory through an analysis of the published work of the principals and others with whom the principals work was interwoven Also included are biographical sketches and enough mathematics to enable readers to follow the development of the subject The volume would be a suitable text for a course on representations of finite groups particularly one emphasizing an historical point of view BOOK JACKET La Rivista del Nuovo cimento ,1969 **Current contents Arts and Humanities** ,2002 The British National Bibliography Arthur James Wells,2000

Pioneers Of Representation Theory Frobenius Burnside Schur And Brauer Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Pioneers Of Representation Theory Frobenius Burnside Schur And Brauer**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will 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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