

# Classical Groups, Derangements and Primes

**Timothy C. Burness**  
**Michael Giudici**

# Classical Derangements Australian Mathematical Society

**Giovanni De Franceschi, Martin W.  
Liebeck, Eamonn A. O'Brien**



## **Classical Derangements Australian Mathematical Society:**

Classical Groups, Derangements and Primes Timothy C. Burness, Michael Giudici, 2016-01-15 A graduate level introduction to finite classical groups featuring a comprehensive account of the conjugacy and geometry of elements of prime order **Classical Groups, Derangements and Primes** Timothy C. Burness, Michael Giudici, 2016 **Amitsur**

**Centennial Symposium** Avinoam Mann, Louis H. Rowen, David J. Saltman, Aner Shalev, Lance W. Small, Uzi

Vishne, 2024-05-14 This volume contains the proceedings of the Amitsur Centennial Symposium held from November 14

2021 virtually and at the Israel Institute for Advanced Studies IAS The Hebrew University of Jerusalem Jerusalem Israel

Shimshon Amitsur was a pioneer in several branches of algebra the leading algebraist in Israel for several decades who contributed major theorems inspiring results useful observations and enlightening tricks to many areas of the field The

fifteen papers included in the volume represent the broad impact of Amitsur's work on such areas as the theory of finite

simple groups algebraic groups PI algebras and growth of rings quadratic forms and division algebras torsors and Severi

Brauer surfaces Hopf algebras and braces invariants automorphisms and derivations **Gazette - Australian**

**Mathematical Society** Australian Mathematical Society, 2007 **Conjugacy in Finite Classical Groups** Giovanni De

Franceschi, Martin W. Liebeck, Eamonn A. O'Brien, 2025-05-05 This book provides a comprehensive coverage of the theory of

conjugacy in finite classical groups Given such a classical group  $G$  the three fundamental problems considered are the

following to list a representative for each conjugacy class of  $G$  to describe the centralizer of each representative by giving its

group structure and a generating set and to solve the conjugacy problem in  $G$  namely given two elements of  $G$  establish

whether they are conjugate and if so find a conjugating element The book presents comprehensive theoretical solutions to all

three problems and uses these solutions to formulate practical algorithms In parallel to the theoretical work implementations

of these algorithms have been developed in Magma These form a critical component of various general algorithms in

computational group theory for example computing character tables and solving conjugacy problems in arbitrary finite

groups **Orthogonal Polynomials and Painlevé Equations** Walter Van Assche, 2018 There are a number of intriguing

connections between Painlevé equations and orthogonal polynomials and this book is one of the first to provide an

introduction to these Researchers in integrable systems and non linear equations will find the many explicit examples where

Painlevé equations appear in mathematical analysis very useful Those interested in the asymptotic behavior of orthogonal

polynomials will also find the description of Painlevé transcendents and their use for local analysis near certain critical points

helpful to their work Rational solutions and special function solutions of Painlevé equations are worked out in detail with a

survey of recent results and an outline of their close relationship with orthogonal polynomials Exercises throughout the book

help the reader to get to grips with the material The author is a leading authority on orthogonal polynomials giving this work

a unique perspective on Painlevé equations *Notes on Counting: An Introduction to Enumerative Combinatorics* Peter J.

Cameron,2017-06-29 An introduction to enumerative combinatorics vital to many areas of mathematics It is suitable as a class text or for individual study      **Many Variations of Mahler Measures** François Brunault,Wadim Zudilin,2020-05-14 The Mahler measure is a fascinating notion and an exciting topic in contemporary mathematics interconnecting with subjects as diverse as number theory analysis arithmetic geometry special functions and random walks This friendly and concise introduction to the Mahler measure is a valuable resource for both graduate courses and self study It provides the reader with the necessary background material before presenting the recent achievements and the remaining challenges in the field The first part introduces the univariate Mahler measure and addresses Lehmer's question and then discusses techniques of reducing multivariate measures to hypergeometric functions The second part touches on the novelties of the subject especially the relation with elliptic curves modular forms and special values of L functions Finally the Appendix presents the modern definition of motivic cohomology and regulator maps as well as Deligne Beilinson cohomology The text includes many exercises to test comprehension and challenge readers of all abilities      **Cherlin's Conjecture for Finite Primitive Binary Permutation Groups** Nick Gill,Martin W. Liebeck,Pablo Spiga,2022-06-17 This book gives a proof of Cherlin's conjecture for finite binary primitive permutation groups Motivated by the part of model theory concerned with Lachlan's theory of finite homogeneous relational structures this conjecture proposes a classification of those finite primitive permutation groups that have relational complexity equal to 2 The first part gives a full introduction to Cherlin's conjecture including all the key ideas that have been used in the literature to prove some of its special cases The second part completes the proof by dealing with primitive permutation groups that are almost simple with socle a group of Lie type A great deal of material concerning properties of primitive permutation groups and almost simple groups is included and new ideas are introduced Addressing a hot topic which cuts across the disciplines of group theory model theory and logic this book will be of interest to a wide range of readers It will be particularly useful for graduate students and researchers who need to work with simple groups of Lie type      Men and Women of the Time Victor Plarr,1895

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