### Roman Mikhailov Inder Bir Singh Passi

# Lower Central and Dimension Series of Groups

1952



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## **Lower Central And Dimension Series Of Groups Lecture Notes In Mathematics**

Rajendra Bhatia, Arup Pal, G Rangarajan, V Srinivas, M Vanninathan

#### **Lower Central And Dimension Series Of Groups Lecture Notes In Mathematics:**

Lower Central and Dimension Series of Groups Roman Mikhailov, Inder Bir Singh Passi, 2008-10-20 A fundamental object of study in group theory is the lower central series of groups Understanding its relationship with the dimension series which consists of the subgroups determined by the augmentation powers is a challenging task This monograph presents an exposition of different methods for investigating this relationship In addition to group theorists the results are also of interest to topologists and number theorists The approach is mainly combinatorial and homological A novel feature is an exposition of simplicial methods for the study of problems in group theory

Lower Central and Dimension Series of Groups Roman Mikhailov, Inder Bir Singh Passi, 2009 A fundamental object of study in group theory is the lower central series of groups Understanding its relationship with the dimension series is a challenging task This monograph presents an exposition of different methods for investigating this relationship Groups St Andrews 1989: Volume 1 C. M. Campbell, E. F. Robertson, 1991-03-21 Selected papers presented at the international conference on group theory held at St Andrews in 1989 are combined in two volumes The themes of the conference were combinatorial and computational group theory

Introduction to Vassiliev Knot Invariants S. Chmutov, Sergeĭ Vasil'evich Duzhin, J. Mostovoy, 2012-05-24 A detailed exposition of the theory with an emphasis on its combinatorial aspects Groups - Korea 1988 Ann C. Kim, Bernhard H. Neumann, 2006-11-14 These proceedings include selected and refereed original papers most are research papers a few are comprehensive survey articles **Recent Advances in Group Theory and Low-dimensional Topology** Jens L. Mennicke, Jung Rae Cho, 2003 Combinatorial Group Theory and Topology. (AM-111), Volume 111 S. M. Gersten, John R. Stallings, 2016-03-02 Group theory and topology are closely related The region of their interaction combining the logical clarity of algebra with the depths of geometric intuition is the subject of Combinatorial Group Theory and Topology The work includes papers from a conference held in July 1984 at Alta Lodge Utah Contributors to the book include Roger Alperin Hyman Bass Max Benson Joan S Birman Andrew J Casson Marshall Cohen Donald J Collins Robert Craggs Michael Dyer Beno Eckmann Stephen M Gersten Jane Gilman Robert H Gilman Narain D Gupta John Hempel James Howie Roger Lyndon Martin Lustig Lee P Neuwirth Andrew J Nicas N Patterson John G Ratcliffe Frank Rimlinger Caroline Series John R Stallings C W Handbook of Algebra ,2003-10-15 Handbook of Algebra Stark and A Royce Wolf Free Group Rings Narain Gupta, 1987 This book deals with some aspects of linear techniques in combinatorial group theory having their origin in the work of Wilhelm Magnus in the 1930s The central theme is the identification and properties of those subgroups of free groups which are induced by certain ideals of the integral group rings of free groups This subject has been developed extensively and the author seeks to present in contemporary style a systematic and comprehensive account of some of its developments Included in the book are a solution of the Fox subgroup problem and an up to date development of the dimension subgroup problem Aimed at graduate students and researchers in combinatorial group theory the book requires a familiarity with the general

terminology of free groups and group rings The Structure of Groups of Prime Power Order Charles Richard Leedham-Green, Susan McKay, 2002 An important monograph summarizing the development of a classification system of Proceedings of the International Mathematical Conference, Singapore 1981 L.H.Y. Chen, T.B. Ng, M.J. Wicks, 1982-01-01 Proceedings of the International Mathematical Conference Singapore 1981 **Riemannian Geometry** Ben Andrews, Christopher Hopper, 2011 This book focuses on Hamilton's Ricci flow beginning with a detailed discussion of the required aspects of differential geometry progressing through existence and regularity theory compactness theorems for Riemannian manifolds and Perelman's noncollapsing results and culminating in a detailed analysis of the evolution of curvature where recent breakthroughs of B hm and Wilking and Brendle and Schoen have led to a proof of the differentiable 1 4 pinching sphere theorem **Complex Cobordism and Stable Homotopy Groups of Spheres** , Douglas C. Ravenel, 2003-11-25 Since the publication of its first edition this book has served as one of the few available on the classical Adams spectral sequence and is the best account on the Adams Novikov spectral sequence This new edition has been updated in many places especially the final chapter which has been completely rewritten with an eye toward future research in the field It remains the definitive reference on the stable homotopy groups of spheres The first three chapters introduce the homotopy groups of spheres and take the reader from the classical results in the field though the computational aspects of the classical Adams spectral sequence and its modifications which are the main tools topologists have to investigate the homotopy groups of spheres Nowadays the most efficient tools are the Brown Peterson theory the Adams Novikov spectral sequence and the chromatic spectral sequence a device for analyzing the global structure of the stable homotopy groups of spheres and relating them to the cohomology of the Morava stabilizer groups These topics are described in detail in Chapters 4 to 6 The revamped Chapter 7 is the computational payoff of the book yielding a lot of information about the stable homotopy group of spheres Appendices follow giving self contained accounts of the theory of formal group laws and the homological algebra associated with Hopf algebras and Hopf algebroids The book is intended for anyone wishing to study computational stable homotopy theory It is accessible to graduate students with a knowledge of algebraic topology and recommended to anyone wishing to venture into the frontiers of the subject **Group Theory** Karl W. Gruenberg, J. E. Roseblade, 1984 This volume celebrates the major impact on modern group theory made by Philip Hall The survey articles were commissioned to provide reasonably self contained up to date and forward looking accounts of finite and infinite group theory Mathematicians working on group theory and ring theory will find this volume interesting and useful and the material is accessible to students specializing in algebra This book was prepared for Philip Hall s 80th birthday but is now published after his death as a tribute to his genius FROM THE PREFACE This book was to have been an eightieth birthday present for Philip Hall In the summer of 1980 the Council of the London Mathematical Society asked us to edit a volume to mark Hall s 80th birthday on the eleventh of April 1984 We decided to produce a book in two parts the first

to consist of commissioned survey articles and the second of submitted research papers Because we intended to invite research articles by advertisement we had to tell Hall something of our plans this we did at a pub lunch outside Cambridge in May 1981 At the same time we asked him if he would agree to take part in a birthday celebration in his honour which had been proposed by the Society Characteristically he said that he would prefer no public festivity but he liked the idea of a book especially the surveys Our idea was that each survey would give a reasonably self contained up to date and forward looking account of an area in which Hall had made important contributions In view of Hall's considerable impact on modern group theory we hoped that the essays would together form a fairly coherent picture of the subject So as to avoid too much overlap we suggested to each author the area we should like him to cover but only in broad terms the choice of material within the suggested area was left entirely to him It was inevitable perhaps that gaps would remain When Hall died on 30th December 1982 we felt that the second half of the planned book was no longer appropriate but that the essays should still be published We offer them here not as a memorial volume since they were largely written while Philip Hall was alive and well but as a tribute to his genius Canadian Journal of Mathematics ,1974-08 Handbook of Geometric Topology R.B. Sher, R.J. Daverman, 2001-12-20 Geometric Topology is a foundational component of modern mathematics involving the study of spacial properties and invariants of familiar objects such as manifolds and complexes This volume which is intended both as an introduction to the subject and as a wide ranging resouce for those already grounded in it consists of 21 expository surveys written by leading experts and covering active areas of current research They provide the reader with an up to date 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures Rajendra Bhatia, Arup Pal, G Rangarajan, V Srinivas, M Vanninathan, 2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress

Mathematics of the USSR., 1983 Handbook of Algebra M. Hazewinkel, 2006-05-30 Algebra as we know it today consists of many different ideas concepts and results A reasonable estimate of the number of these different items would be somewhere between 50 000 and 200 000 Many of these have been named and many more could and perhaps should have a name or a convenient designation Even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information If this happens one should be able to find enough information in this Handbook to judge if it is worthwhile to pursue the quest In addition to the primary information given in the Handbook there are references to relevant articles books or lecture notes to help the reader An excellent index has been included which is extensive and not limited to definitions theorems etc The Handbook of

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