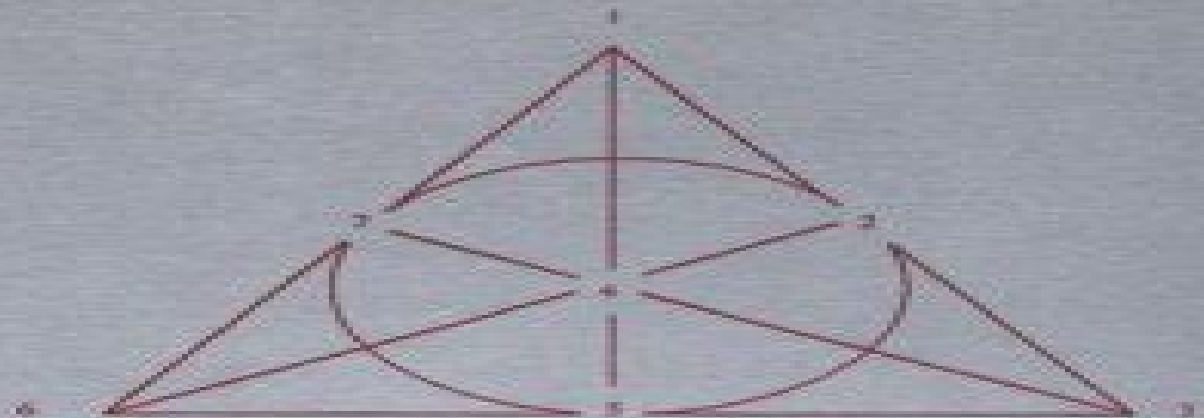G. Butler

Fundamental Algorithms for Permutation Groups

Fundamental Algorithms For Permutation Groups

Ivan Tomek

Fundamental Algorithms For Permutation Groups:

   Fundamental Algorithms for Permutation Groups Gregory Butler,1991-11-27 This is the first ever book on computational group theory It provides extensive and up to date coverage of the fundamental algorithms for permutation groups with reference to aspects of combinatorial group theory soluble groups and p groups where appropriate The book begins with a constructive introduction to group theory and algorithms for computing with small groups followed by a gradual discussion of the basic ideas of Sims for computing with very large permutation groups and concludes with algorithms that use group homomorphisms as in the computation of Sylowsubgroups No background in group theory is assumed The emphasis is on the details of the data structures and implementation which makes the algorithms effective when applied to realistic problems The algorithms are developed hand in hand with the theoretical and practical justification All algorithms are clearly described examples are given exercises reinforce understanding and detailed bibliographical remarks explain the history and context of the work Much of the later material on homomorphisms Sylow subgroups and soluble permutation groups is new

   Permutation Group Algorithms Ákos Seress,2003-03-17 Table of contents   **Handbook of Computational Group Theory** Derek F. Holt,Bettina Eick,Eamonn A. O'Brien,2005-01-13 The origins of computation group theory CGT date back to the late 19th and early 20th centuries Since then the field has flourished particularly during the past 30 to 40 years and today it remains a lively and active branch of mathematics The Handbook of Computational Group Theory offers the first complete treatment of all the fundame   *Algorithms and Data Structures* Frank Dehne,Jörg-Rüdiger Sack,Ulrike Stege,2015-07-27 This book constitutes the refereed proceedings of the 14th Algorithms and Data Structures Symposium WADS 2015 held in Victoria BC Canada August 2015 The 54 revised full papers presented in this volume were carefully reviewed and selected from 148 submissions The Algorithms and Data Structures Symposium WADS formerly Workshop on Algorithms And Data Structures which alternates with the Scandinavian Workshop on Algorithm Theory is intended as a forum for researchers in the area of design and analysis of algorithms and data structures WADS includes papers presenting original research on algorithms and data structures in all areas including bioinformatics combinatorics computational geometry databases graphics and parallel and distributed computing   Groups and Computation II Larry Finkelstein, William M. Kantor, Consists of papers presented at the workshop on Groups and Computation held at DIMACS   *50 Years of Integer Programming 1958-2008* Michael Jünger,Thomas M. Liebling,Denis Naddef,George L. Nemhauser,William R. Pulleyblank,Gerhard Reinelt,Giovanni Rinaldi,Laurence A. Wolsey,2009-11-06 In 1958 Ralph E Gomory transformed the field of integer programming when he published a paper that described a cutting plane algorithm for pure integer programs and announced that the method could be refined to give a finite algorithm for integer programming In 2008 to commemorate the anniversary of this seminal paper a special workshop celebrating fifty years of integer programming was held in Aussois France as part of the 12th Combinatorial Optimization Workshop It contains reprints of key historical articles and written

versions of survey lectures on six of the hottest topics in the field by distinguished members of the integer programming community Useful for anyone in mathematics computer science and operations research this book exposes mathematical optimization specifically integer programming and combinatorial optimization to a broad audience   Classification Algorithms for Codes and Designs Petteri Kaski,Patric R.J. Östergård,2006-02-03 A new starting point and a new method are requisite to insure a complete classi cation of the Steiner triple systems of order 15 This method was furnished and its tedious and di cult execution und taken by Mr Cole F N Cole L D Cummings and H S White 1917 129 The history of classifying combinatorial objects is as old as the history of the objects themselves In the mid 19th century Kirkman Steiner and others became the fathers of modern combinatorics and their work on various objects including what became later known as Steiner triple systems led to several classi cation results Almost a century earlier in 1782 Euler 180 published some results on classifying small Latin squares but for the rst few steps in this direction one should actually go at least as far back as ancient Greece and the proof that there are exactly ve Platonic solids One of the most remarkable achievements in the early pre computer era is the classi cation of the Steiner triple systems of order 15 quoted above An onerous task that today no sensible person would attempt by hand calcu tion Because with the exception of occasional parameters for which com natorial arguments are e ective often to prove nonexistence or uniqueness classi cation in general is about algorithms and computation   **Computer Assisted Learning** Ivan Tomek,1992-05-27 ICCAL the International Conference on Computers and Learning is a forum for the exchange of ideas and presentation of developments in the theory andpractice of computer uses in education with a focus on post secondary education ICCAL 92 was held at Acadia University in Wolfville Nova Scotia Canada June 17 20 1992 This volume presents the proceedings of ICCAL 92 and features 45 submitted and 6 invited papers Topics addressed include hypermedia systems multimedia learning environments educational strategies knowledge based tutors program visualization systems intelligent tutoring systems mouse and touchscreen comparison cooperative multimedia authoring systems language learning spelling remediation teaching geometry a tutoring assistant for arithmetic a learning package for statistics conversational pattern learning adaptive navigational tools and many more   **PARLE '92, Parallel Architectures and Languages Europe** Daniel Etiemble,1992-06-03 The 1992 Parallel Architectures and Languages Europe conference continues the tradition of a wide and representative international meeting of specialists from academia and industry in theory design and application of parallel computer systems set by the previous PARLE conferences held in Eindhoven in 1987 1989 and 1991 This volume contains the 52 regular and 25 poster papers that were selected from 187 submitted papers for presentation and publication In addition five invited lectures areincluded The regular papers are organized into sections on implementation of parallel programs graph theory architecture optimal algorithms graph theory and performance parallel software components data base optimization and modeling data parallelism formal methods systolic approach functional programming fine grain parallelism Prolog data flow systems network efficiency parallel algorithms

cache systems implementation of parallel languages parallel scheduling in data base systems semantic models parallel data base machines and language semantics   *Computational Methods for Representations of Groups and Algebras* P. Dräxler,Gerhard Michler,Claus Michael Ringel,1999 I Introductory Articles 1 Classification Problems in the Representation Theory of Finite Dimensional Algebras 2 Noncommutative Gr bner Bases and Projective Resolutions 3 Construction of Finite Matrix Groups II Keynote Articles 4 Derived Tubularity a Computational Approach 5 Problems in the Calculation of Group Cohomology 6 On a Tensor Category for the Exceptional Lie Groups 7 Non Commutative Gr bner Bases and Anick s Resolution 8 A new Existence Proof of Janko s Simple Group J4 9 The Normalization a new Algorithm Implementation and Comparisons 10 A Computer Algebra Approach to sheaves over Weighted Projective Lines 11 Open Problems in the Theory of Kazhdan Lusztig polynomials 12 Relative Trace Ideals and Cohen Macaulay Quotients 13 On Sims Presentation for Lyons Simple Group 14 A Presentation for the Lyons Simple Group 15 Reduction of Weakly Definite Unit Forms 16 Decision Problems in Finitely Presented Groups 17 Some Algorithms in Invariant Theory of Finite Groups 18 Coxeter Transformations associated with Finite Dimensional Algebras 19 The 2 Modular Decomposition Numbers of Co2 20 Bimodule and Matrix Problems   Recent Issues in Pattern Analysis and Recognition Virginio Cantoni,Reiner Creutzburg,Stefano Levialdi,Gottfried Wolf,1989-12-20 This book offers readers a broad view of research in some Western and Eastern European countries on pattern and signal analysis and on coding handling and measurement of images It is a selection of refereed papers from two sources first a satellite conference within the biannual International Conference on Pattern Recognition held in Rome November 14 17 1988 and second work done at the International Basic Laboratory on Image Processing and Computer Graphics Berlin GDR The papers are grouped into three sections The first section contains new proposals for the specific computation of particular features of digital images and the second section is devoted to the introduction and testing of general approaches to the solution of problems met in digital geometry image coding feature extraction and object classification The third section illustrates some recent practical results obtained on real images specifically in character and speech recognition as well as in biomedicine All the techniques illustrated in this book will find direct application in the near future This book should interest and stimulate the reader provoke new thoughts and encourage further research in this widely appealing field   *Real-Time: Theory in Practice* J.W.de Bakker,1992-06-24 In the past decade the formal theory of specification verfication and development of real time programs has grown from work of a few specialized groups to a real bandwagon Many eminent research groups have shifted their interests in this direction Consequently research in real time is now entering established research areas in formal methods such as process algebra temporal logic and model checking This volume contains the proceedings of a workshop dedicated to the theory of real time with the purpose of stepping back and viewing the results achieved as well as considering the directions of ongoing research The volume gives a representative picture of what is going on in the field worldwide presented by eminent active researchers The material in the volume was

prepared by the authors after the workshop took place and reflects the results of the workshop discussions   <u>Theory of Finite Simple Groups</u> Gerhard Michler,2006-09-21 The first representation theoretic and algorithmic approach to the theory of abstract finite simple groups   *Computer Algebra and Parallelism* Richard E. Zippel,1992-03-25 This book contains papers presented at a workshop on the use of parallel techniques in symbolic and algebraic computation held at Cornell University in May 1990 The eight papers in the book fall into three groups The first three papers discuss particular programming substrates for parallel symbolic computation especially for distributed memory machines The next three papers discuss novel ways of computing with elements of finite fields and with algebraic numbers The finite field technique is especially interesting since it uses the Connection Machine a SIMD machine to achievesurprising amounts of parallelism One of the parallel computing substrates is also used to implement a real root isolation technique One of the crucial algorithms in modern algebraic computation is computing the standard or Gr bner basis of an ideal The final two papers discuss two different approaches to speeding their computation One uses vector processing on the Cray and achieves significant speed ups The other uses a distributed memory multiprocessor and effectively explores the trade offs involved with different interconnect topologies of the multiprocessors   **Parallelization in Inference Systems** Bertram Fronhöfer,Graham Wrightson,1992-04-22 This volume contains the proceedings of an international workshop on parallelism in inference systems held in Germany in December 1990 The topicof the workshop is still rather young and several papers in the book are overview articles intended to provide a first orientation toward some of the more intensively investigated subtopics The main part of the book is a compilation of research papers on parallelization in special domains ofinference such as rewriting automatic reasoning logic programming andconnectionist inference Appended to the book is a collection of short project summaries received in response to a worldwide email call The book is intended primarily for researchers working on inference systems who are interested in parallelizing their systems   <u>Relational Matching</u> George Vosselman,1992-09-10 This is an introduction to recursive functions intended for graduate students It presupposes some mathematical maturity and a slight aquaintancewith some important topics such as group theory and topology Some acquaintance with logic is desirable but not essential It introduces the main topics of recusion theory such as hierarchy theory RE sets and undecidable theories without going very deeply into any of them   **LATIN '92** Imre Simon,1992-03-11 This volume contains the proceedings of LATIN 92 a theoretical computer science symposium Latin American Theoretical Informatics held in S o Paulo Brazil in April 1992 LATIN is intended to be a comprehensive symposium in the theory of computing but for this first meeting the following areas were chosen for preferential coverage algorithms and data structures automata and formal languages computability and complexity theory computational geometry cryptography parallel and distributed computation symbolic and algebraic computation and combinatorial and algebraic aspects of computer science The volume includesfull versions of the invited papers by 11 distinguished guest lecturers as well as 32 contributed papers selected from 66 submissions from authors with

affiliations in 26 countries   **Compiler Construction** Uwe Kastens,Peter Pfahler,1992-09-23 The International Workshop on Compiler Construction provides a forum for thepresentation and discussion of recent developments in the area of compiler construction Its scope ranges from compilation methods and tools to implementation techniques for specific requirements of languages and target architectures This volume contains the papers selected for presentation at the 4th International Workshop on Compiler Construction CC 92 held in Paderborn Germany October 5 7 1992 The papers present recent developments on such topics as structural and semantic analysis code generation and optimization and compilation for parallel architectures and for functional logical and application languages   *Algebraic and Logic Programming* Helene Kirchner,Giorgio Levi,1992-08-19 This volume contains the proceedings of the Third International Conference on Algebraic and Logic Programming held in Pisa Italy September 2 4 1992 Like the two previous conferences in Germany in 1988 and France in 1990 the third conference aims at strengthening the connections betweenalgebraic techniques and logic programming On the one hand logic programming has been very successful during the last decades and more and more systems compete in enhancing its expressive power On the other hand concepts like functions equality theory and modularity are particularly well handled in an algebraic framework Common foundations of both approaches have recently been developed and this conference is a forum for people from both areas to exchange ideas results and experiences The book covers the following topics semantics ofalgebraic and logic programming integration of functional and logic programming term rewriting narrowing and resolution constraintlogic programming and theorem proving concurrent features in algebraic and logic programming languages and implementation issues   *CONCUR '92* Walter R. Cleaveland,1992-08-12 This book contains a selection of research papers describing recent advancesin the theory of concurrent systems and their applications The papers were all presented at the CONCUR 92 conference which has emerged as the premiere conference on formal aspects of concurrency The authors include such prominent researchers as R Milner A Pnueli N Lynch and V R Pratt The results represent advances in the mathematical understanding of the behavior of concurrent systems topics covered include process algebras models of true concurrency compositional verification techniques temporal logic verification case studies models of probabilistic and real time systems models of systems with dynamic structure and algorithms and decidability results for system analysis A key feature of CONCUR is its breadth in one volume it presents a snapshot of the state of the art in concurrency theory Assuch it is indispensible to researchers and would be researchers in theformal analysis of concurrent systems

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