

Download Fundamental Algorithms For Permutation Groups

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. Written by one of the pioneers in the field, This book encompasses an excellent and deep introduction to the fundamental algorithms necessary to deal with permutation groups. The algorithms are clear, concise and accurate. The Schreier-Todd-Coxeter-Sims method briefly mentioned in chapter 13 and described in J. S. Leon, "On an algorithm for finding a base and strong generating set for a group given by generating permutations", *Mathematics of Computation* 35, 151 (1980) 941-974 determines defining relations for very large permutation groups. Otto-von-Guericke University Magdeburg Faculty of Computer Science Department for Simulation and Graphics Diploma Thesis Fundamental Permutation Group Algorithms for