



Representations of Groups: A Computational Approach (Cambridge Studies in Advanced Mathematics)

By Klaus Lux, Herbert Pahlings

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The representation theory of finite groups has seen rapid growth in recent years with the development of efficient algorithms and computer algebra systems. This is the first book to provide an introduction to the ordinary and modular representation theory of finite groups with special emphasis on the computational aspects of the subject. Evolving from courses taught at Aachen University, this well-paced text is ideal for graduate-level study. The authors provide over 200 exercises, both theoretical and computational, and include worked examples using the computer algebra system GAP. These make the abstract theory tangible and engage students in real hands-on work. GAP is freely available from www.gap-system.org and readers can download source code and solutions to selected exercises from the book's web page.

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Review

"Representations of Groups: A Computational Approach, by Lux and Pahlings, is a well-constructed, dense, and, its introductory nature notwithstanding, pretty far-reaching text. Happily, it is also quite accessible....As it should be given what the authors have in mind, Representations of Groups: A Computational Approach is laden with examples and exercises, many of them supplied with hints. The book is well-written and anything but chatty and is based on the authors' courses so that much of the material in the book has been field tested."
Michael Berg, MAA Reviews

"I enjoyed reading this book, and recommend it as a good modern second course in representation theory. The choice of topics and their arrangement are interesting, sometimes even surprising, but clearly well thought out."

Robert A. Wilson, Bulletin of the London Mathematical Society

"... this is really a wonderful, nice, and significant book, which is so well written, and it is recommended to a wide range of mathematicians, including not only graduate students but also many mathematicians of greater experience."

Shigeo Koshittani, Mathematical Reviews

About the Author

Klaus Lux is Associate Professor in the Department of Mathematics at the University of Arizona, Tucson.

Herbert Pahlings is Professor Emeritus at RWTH Aachen University in Germany.

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