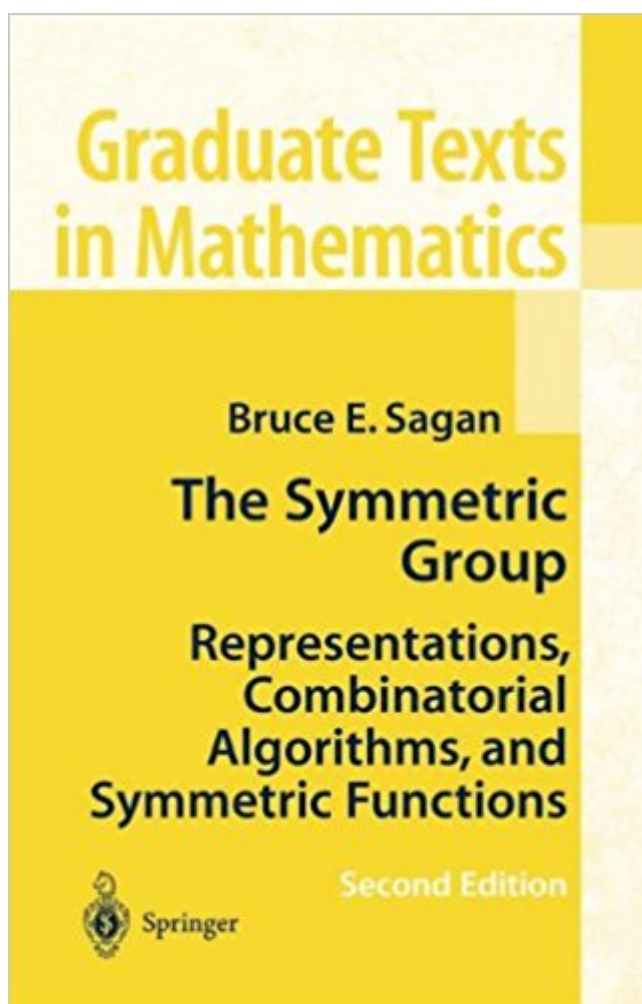


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The Symmetric Group: Representations, Combinatorial Algorithms, And Symmetric Functions (Graduate Texts In Mathematics, Vol. 203)





Synopsis

This book brings together many of the important results in this field. From the reviews: "A classic gets even better....The edition has new material including the Novelli-Pak-Stoyanovskii bijective proof of the hook formula, Stanley's proof of the sum of squares formula using differential posets, Fomin's bijective proof of the sum of squares formula, group acting on posets and their use in proving unimodality, and chromatic symmetric functions." --ZENTRALBLATT MATH

Book Information

Hardcover: 240 pages

Publisher: Springer; 2nd edition (April 20, 2001)

Language: English

ISBN-10: 0387950672

ISBN-13: 978-0387950679

Product Dimensions: 6.1 x 0.7 x 9.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 6 customer reviews

Best Sellers Rank: #763,416 in Books (See Top 100 in Books) #104 in Books > Science & Math > Mathematics > Pure Mathematics > Group Theory #152 in Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Abstract #153 in Books > Science & Math > Mathematics > Pure Mathematics > Functional Analysis

Customer Reviews

From the reviews of the second edition: "This work is an introduction to the representation theory of the symmetric group. Unlike other books on the subject this text deals with the symmetric group from three different points of view: general representation theory, combinatorial algorithms and symmetric functions. ... This book is a digestible text for a graduate student and is also useful for a researcher in the field of algebraic combinatorics for reference." (Attila Maróti, Acta Scientiarum Mathematicarum, Vol. 68, 2002) "A classic gets even better. ... The edition has new material including the Novelli-Pak-Stoyanovskii bijective proof of the hook formula, Stanley's proof of the sum of squares formula using differential posets, Fomin's bijective proof of the sum of squares formula, group acting on posets and their use in proving unimodality, and chromatic symmetric functions." (David M. Bressoud, Zentralblatt MATH, Vol. 964, 2001)

I'm a graduate student in mathematics, and I decided to take a qualifying examination in the area of

Representation Theory, despite the fact that my high-level algebra experience is basically zero. To make matters worse the Professor for the topic, who is very highly acclaimed in the field, has no interest on lecturing on the the fundamentals of the theory. My entire class was feeling very frustrated as he lectured on about his areas of potential research without actually covering the underlying theory first. Thank god I found this book, which is very accessible, and provides three different approaches to the the topic. I highly recommend it.

This is the book we use for my graduate combinatorics course. It's written quite well, especially for a graduate text.

Sagan's book makes representation theory easy. The book first covers representations using modules and then choosing a basis to show the matrix approach. With every new topic he develops it using what Doron Zeilberger has dubbed the Gelfand Principle ([...]) The principle is: "Always chooses the smallest example to make a point". It isn't easy to find the smallest example when S_n grows as quickly as it does, but Sagan always manages to do it. The ensuing chapters follow in the same vein. Ideas are introduced and explained, sometimes with pictures, sometimes with calculations, but always as clearly as can be. To read this book does require a firm grounding in linear algebra, as well as abstract algebra. Time reading it is time well spent.

This book is excellent. The material is presented clearly and concisely. It makes the subject matter accessible and interesting. I used it as the text for a one-semester graduate subject. I completed all of the exercises, so it is well-paced for this kind of study. I started with only an introductory knowledge of group theory, so it is self-contained. The only drawback is that there are no solutions to any of the exercises. If it had this, it would be a perfect book.

This book has 4 chapters. Chapter 1 is about general theory of representations of finite group. Chapter 2 is about representation of symmetric groups. Chapter 3 and 4 are about combinatorial topics and symmetric functions. Though I haven't read all of the book, I highly recommend this book because this book shows us introductory part of representation theory with easy words. I think it is worth to read for all who are to begin the study of representation theory.

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