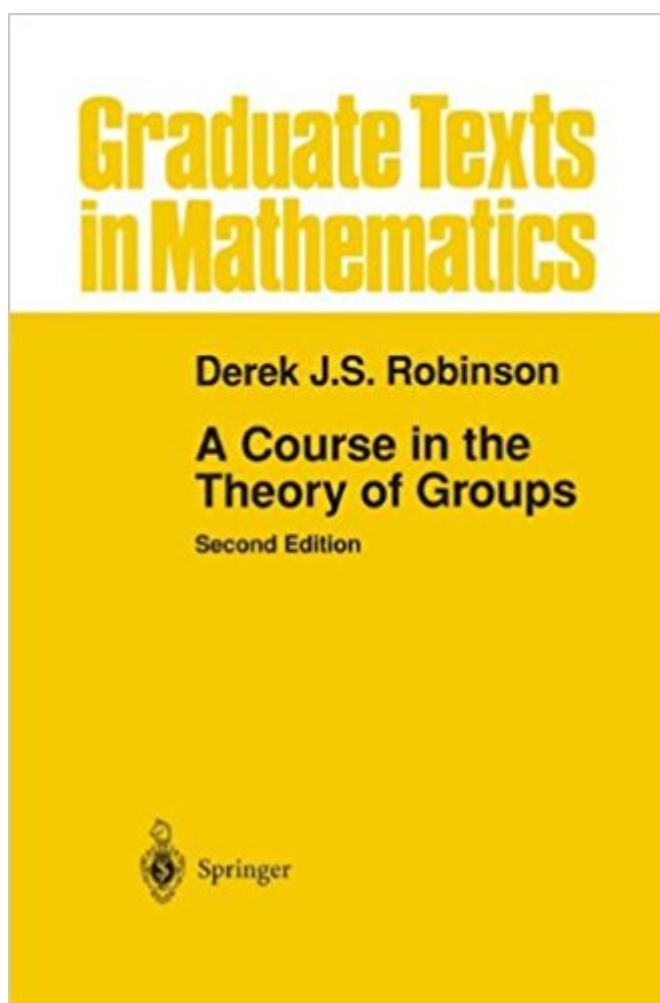


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# A Course In The Theory Of Groups (Graduate Texts In Mathematics, Vol. 80)



## Synopsis

"An excellent up-to-date introduction to the theory of groups. It is general yet comprehensive, covering various branches of group theory. The 15 chapters contain the following main topics: free groups and presentations, free products, decompositions, Abelian groups, finite permutation groups, representations of groups, finite and infinite soluble groups, group extensions, generalizations of nilpotent and soluble groups, finiteness properties."  $\hat{\mathbb{Q}}$   $\rightarrow$  ACTA SCIENTIARUM

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## Book Information

Series: Graduate Texts in Mathematics (Book 80)

Hardcover: 502 pages

Publisher: Springer; 2nd edition (October 26, 1995)

Language: English

ISBN-10: 0387944613

ISBN-13: 978-0387944616

Product Dimensions: 6.1 x 1.1 x 9.2 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #830,400 in Books (See Top 100 in Books) #116 in  $\hat{\mathbb{Q}}$  Books > Science & Math > Mathematics > Pure Mathematics > Group Theory #160 in  $\hat{\mathbb{Q}}$  Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Abstract #2252 in  $\hat{\mathbb{Q}}$  Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry

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A Course in the Theory of Groups is a comprehensive introduction to general group theory.

Presupposing only a basic knowledge of abstract algebra, it introduces the reader to the different

branches of group theory and their principal accomplishments. The book stresses the unity of group theory and draws attention to connections with other areas of algebra. Numerous exercises are given which supplement the material in the text.

This book is, I suppose, the most authoritative and comprehensive text on group theory. Text is quite succinct and self-contained, proofs are elegant and rigorous. Only few sections of the first chapter cover undergraduate group theory. Therefore I do not recommend it for the one that would prefer an introductory text rather than a serious reference text. It is also a strong self study text, the example questions are well-chosen and generally demanding. Though its name begins with 'A Course...', I think it contains enough material for more than 3 courses, a semester each. It is definitely worth its value, a must for a mathematician's library.

This book is an excellent second book after the one from J Rotman (An introduction to the theory of groups). Self studying with the 2 books demands a lot of work but can be achieved by someone motivated. When a concept is not understood with one of the books, the explanation read in the second really help. This book is not for a beginner, but is perfect for someone with a real mathematical background. The concepts are organised as can be the mathematical courses in universities, concise, succinct and demanding.

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