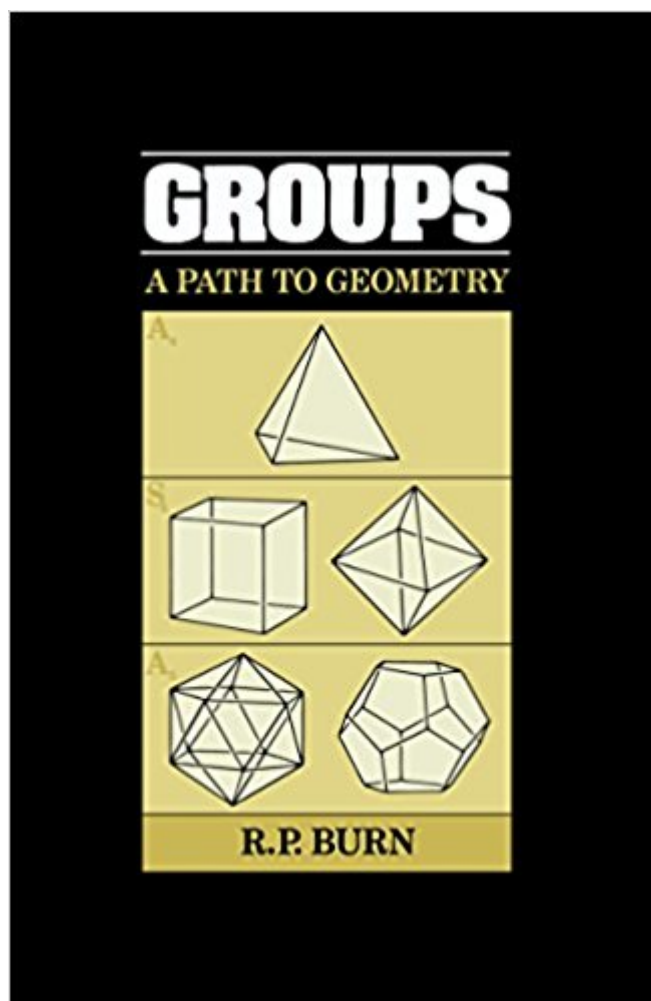


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Groups: A Path To Geometry



Synopsis

This book follows the same successful approach as Dr Burn's previous book on number theory. It consists of a carefully constructed sequence of questions which will enable the reader, through his or her own participation, to generate all the group theory covered by a conventional first university course. An introduction to vector spaces, leading to the study of linear groups, and an introduction to complex numbers, leading to the study of Möbius transformations and stereographic projection, are also included. Quaternions and their relationship to three-dimensional isometries are covered, and the climax of the book is a study of crystallographic groups, with a complete analysis of these groups in two dimensions.

Book Information

File Size: 23476 KB

Print Length: 256 pages

Simultaneous Device Usage: Up to 4 simultaneous devices, per publisher limits

Publisher: Cambridge University Press (September 3, 1987)

Publication Date: September 3, 1987

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B01N6Y4U18

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #395,668 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #14

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Customer Reviews

Excellent book and excellent service!

R. P. Burn is an amazing writer for mathematical textbooks. This book follows Burn's typical format;

therefore, this text is little more than a collection of (very) brief introductions to terminology and concepts, followed by a long list of questions for each chapter. Finally, each chapter has an answer section. The questions asked typically very short, and at first are very simple and intuitively obvious. As each chapter progresses, however, the questions begin to build from prior questions already answered and express more and more complex concepts. Typically, by the time a chapter has been completed, the reader will have completed one or more complicated proofs typically found in other texts on the same subject-- small bite by small bite at a time. Highly recommended

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