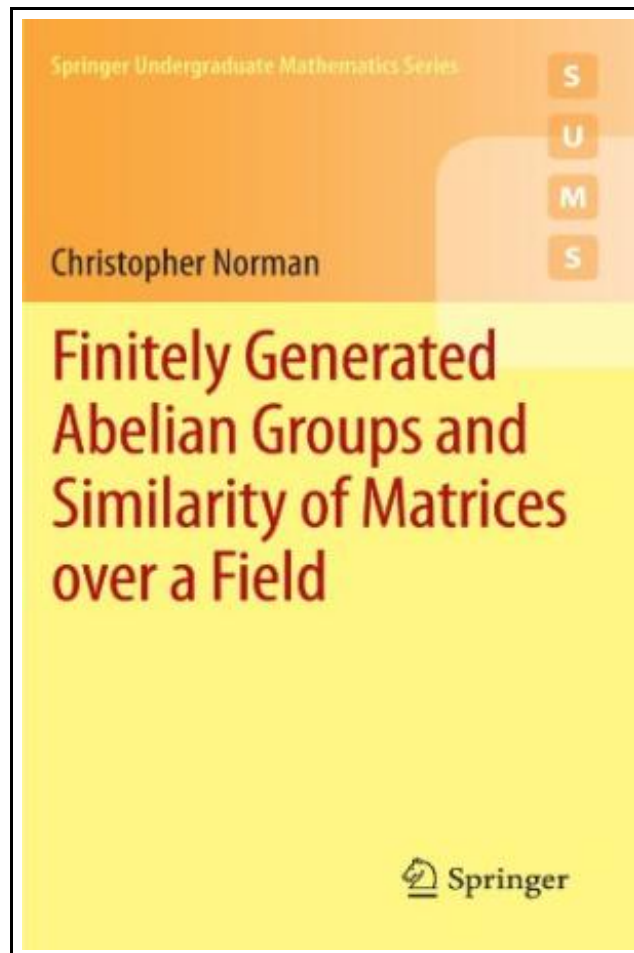


Finitely Generated Abelian Groups and Similarity of Matrices Over a Field (Paperback)



Filesize: 5.46 MB

Reviews

Basically no words to clarify. Of course, it is perform, still an amazing and interesting literature. Its been printed in an exceptionally basic way which is only soon after i finished reading through this ebook where actually altered me, change the way i really believe.

(Newton Runolfsson)

FINITELY GENERATED ABELIAN GROUPS AND SIMILARITY OF MATRICES OVER A FIELD (PAPERBACK)

[DOWNLOAD](#)

To read **Finitely Generated Abelian Groups and Similarity of Matrices Over a Field (Paperback)** PDF, remember to follow the link under and save the document or have accessibility to additional information that are relevant to FINITELY GENERATED ABELIAN GROUPS AND SIMILARITY OF MATRICES OVER A FIELD (PAPERBACK) ebook.

Springer London Ltd, United Kingdom, 2012. Paperback. Book Condition: New. 2012 ed.. 234 x 156 mm. Language: English Brand New Book ***** Print on Demand *****.At first sight, finitely generated abelian groups and canonical forms of matrices appear to have little in common. However, reduction to Smith normal form, named after its originator H.J.S.Smith in 1861, is a matrix version of the Euclidean algorithm and is exactly what the theory requires in both cases. Starting with matrices over the integers, Part 1 of this book provides a measured introduction to such groups: two finitely generated abelian groups are isomorphic if and only if their invariant factor sequences are identical. The analogous theory of matrix similarity over a field is then developed in Part 2 starting with matrices having polynomial entries: two matrices over a field are similar if and only if their rational canonical forms are equal. Under certain conditions each matrix is similar to a diagonal or nearly diagonal matrix, namely its Jordan form. The reader is assumed to be familiar with the elementary properties of rings and fields. Also a knowledge of abstract linear algebra including vector spaces, linear mappings, matrices, bases and dimension is essential, although much of the theory is covered in the text but from a more general standpoint: the role of vector spaces is widened to modules over commutative rings. Based on a lecture course taught by the author for nearly thirty years, the book emphasises algorithmic techniques and features numerous worked examples and exercises with solutions. The early chapters form an ideal second course in algebra for second and third year undergraduates. The later chapters, which cover closely related topics, e.g. field extensions, endomorphism rings, automorphism groups, and variants of the canonical forms, will appeal to more advanced students. The book is a...



[Read Finitely Generated Abelian Groups and Similarity of Matrices Over a Field \(Paperback\) Online](#)



[Download PDF Finitely Generated Abelian Groups and Similarity of Matrices Over a Field \(Paperback\)](#)

You May Also Like



[PDF] I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book (Paperback)

Click the hyperlink below to get "I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book (Paperback)" PDF document.

[Save Document »](#)



[PDF] Music for Children with Hearing Loss: A Resource for Parents and Teachers (Paperback)

Click the hyperlink below to get "Music for Children with Hearing Loss: A Resource for Parents and Teachers (Paperback)" PDF document.

[Save Document »](#)



[PDF] Hope for Autism: 10 Practical Solutions to Everyday Challenges (Paperback)

Click the hyperlink below to get "Hope for Autism: 10 Practical Solutions to Everyday Challenges (Paperback)" PDF document.

[Save Document »](#)



[PDF] The Adventures of a Plastic Bottle: A Story about Recycling (Paperback)

Click the hyperlink below to get "The Adventures of a Plastic Bottle: A Story about Recycling (Paperback)" PDF document.

[Save Document »](#)



[PDF] Violin Concerto, Op.82: Study Score (Paperback)

Click the hyperlink below to get "Violin Concerto, Op.82: Study Score (Paperback)" PDF document.

[Save Document »](#)



[PDF] EU Law Directions (Paperback)

Click the hyperlink below to get "EU Law Directions (Paperback)" PDF document.

[Save Document »](#)