



Numbers, Groups and Codes

By J. F. Humphreys, M. Y. Prest

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The aim of this textbook is to introduce the concepts of algebra via examples and to relate them to their applications, particularly in computer sciences. It can be used to teach courses that bridge the widening gap between school and university. In order to give a definite shape to the material, topics that develop elementary group theory are included. The choice of topics is motivated by the wish to provide a sound, rigorous and historically relevant introduction to group theory. Studying group theory in this way enables the student to recognize mathematical patterns in other areas, some traditional, others not so. The book has developed from first level courses taught in the UK and USA. These courses proved successful in developing not only a theoretical understanding but also algorithmic skills.

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Editorial Review

Review

'... very suitable for a class with many students interested in combinatorics, computer science, or engineering ... This book merits a close look because of its pedagogical strengths. One might say this book really is about 'How to think about mathematics'. And that is a great virtue ... The book is sprinkled with historical and other motivations ... The history is natural, fits, and flows with the exposition ... a very useful text on abstract algebra.' MAA Online - The Mathematical Association of America

About the Author

fm.author_biographical_note1

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