How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications)

By R.B.J.T. Allenby, Alan Slomson

How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson

Emphasizes a Problem Solving Approach
A first course in combinatorics

Completely revised, **How to Count: An Introduction to Combinatorics, Second Edition** shows how to solve numerous classic and other interesting combinatorial problems. The authors take an easily accessible approach that introduces problems before leading into the theory involved. Although the authors present most of the topics through concrete problems, they also emphasize the importance of proofs in mathematics.

New to the Second Edition
This second edition incorporates 50 percent more material. It includes seven new chapters that cover occupancy problems, Stirling and Catalan numbers, graph theory, trees, Dirichlet's pigeonhole principle, Ramsey theory, and rook polynomials. This edition also contains more than 450 exercises.

Ideal for both classroom teaching and self-study, this text requires only a modest amount of mathematical background. In an engaging way, it covers many combinatorial tools, such as the inclusion-exclusion principle, generating functions, recurrence relations, and Pólya's counting theorem.

How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications)

By R.B.J.T. Allenby, Alan Slomson

How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson

Emphasizes a Problem Solving Approach
A first course in combinatorics

Completely revised, **How to Count: An Introduction to Combinatorics, Second Edition** shows how to solve numerous classic and other interesting combinatorial problems. The authors take an easily accessible approach that introduces problems before leading into the theory involved. Although the authors present most of the topics through concrete problems, they also emphasize the importance of proofs in mathematics.

New to the Second Edition
This second edition incorporates 50 percent more material. It includes seven new chapters that cover occupancy problems, Stirling and Catalan numbers, graph theory, trees, Dirichlet's pigeonhole principle, Ramsey theory, and rook polynomials. This edition also contains more than 450 exercises.

Ideal for both classroom teaching and self-study, this text requires only a modest amount of mathematical background. In an engaging way, it covers many combinatorial tools, such as the inclusion-exclusion principle, generating functions, recurrence relations, and Pólya's counting theorem.

How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson Bibliography

- Sales Rank: #286740 in Books
- Brand: Brand: Chapman and Hall/CRC
- Published on: 2010-08-12
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.00" w x 7.00" l, 2.11 pounds
- Binding: Hardcover
- 444 pages

⬇ **Download** How to Count: An Introduction to Combinatorics, Se ...pdf

▤ **Read Online** How to Count: An Introduction to Combinatorics, ...pdf

Download and Read Free Online How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson

Editorial Review

Review

The current edition is about 60% longer and represents an extensively updated collaboration coauthored with R.B.J.T. Allenby. Both authors have decades of experience teaching related material at the University of Leeds. …
The book is beautifully structured to facilitate both instruction in a classroom as well as self-instruction. … Every section of the book has a number of [paired] exercises which are designed to solidify and build understanding of the topics in the section. … This is exactly the kind of exercise regimen serious readers, instructors, and students need and are so rarely provided. …
Another pedagogical asset of the text is the extensive incorporation of historical anecdotes about the discoverers of the results. … it fosters an admiration of the developers of the field, an attitude which is key to transforming students of mathematics into professional mathematicians. …
The authors have created an interesting, instructive, and remarkably usable text. The book clearly benefits instructors who need a solid, readable text for a course on discrete mathematics and counting. In fact, for any professional who wants an understandable text from which they can acquire a broad and mathematically solid view of many of the classic problems and results in counting theory, including their origin, proof, and application to other problems in combinatorics, this book is recommended.
?James A. McHugh, *SIAM Review*, 54 (1), 2012

… thoughtfully written, contain[s] plenty of material and exercises … very readable and useful …
?*MAA Reviews*, February 2011

The reasons I adopted this book are simple: it's the best one-volume book on combinatorics for undergraduates. It begins slowly and gently, but does not avoid subtleties or difficulties. It includes the right mixture of topics without bloat, and always with an eye to good mathematical taste and coherence. Enumerative combinatorics is developed rather fully, through Stirling and Catalan numbers, for example, before generating functions are introduced. Thus this tool is very much appreciated and its 'naturalness' is easier to comprehend. Likewise, partitions are introduced in the absence of generating functions, and then later generating functions are applied to them: again, a wise pedagogical move. The ordering of chapters is nicely set up for two different single-semester courses: one that uses more algebra, culminating in Polya's counting theorem; the other concentrating on graph theory, ending with a variety of Ramsey theory topics. … I was very much impressed with the first edition when I encountered it in 1994. I like the second edition even more. …
?Paul Zeitz, University of San Francisco, California, USA

Completely revised, the book shows how to solve numerous classic and other interesting combinatorial problems. … The reading list at the end of the book gives direction to exploring more complicated counting problems as well as other areas of combinatorics.
?*Zentralblatt MATH* 1197

About the Author

Alan Slomson taught mathematics at the University of Leeds from 1967 to 2008. He is currently the secretary of the United Kingdom Mathematics Trust.

R.B.J.T. Allenby taught mathematics at the University of Leeds from 1965 to 2007.

Users Review

From reader reviews:

Gemma Jackson:

This How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) are generally reliable for you who want to become a successful person, why. The explanation of this How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) can be one of the great books you must have is definitely giving you more than just simple looking at food but feed a person with information that probably will shock your prior knowledge. This book is actually handy, you can bring it just about everywhere and whenever your conditions in e-book and printed kinds. Beside that this How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) forcing you to have an enormous of experience including rich vocabulary, giving you demo of critical thinking that we understand it useful in your day exercise. So , let's have it and enjoy reading.

Vincenza Nagel:

Spent a free time and energy to be fun activity to try and do! A lot of people spent their spare time with their family, or their particular friends. Usually they doing activity like watching television, about to beach, or picnic within the park. They actually doing same task every week. Do you feel it? Would you like to something different to fill your own free time/ holiday? Might be reading a book could be option to fill your free of charge time/ holiday. The first thing that you will ask may be what kinds of reserve that you should read. If you want to consider look for book, may be the book untitled How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) can be good book to read. May be it is usually best activity to you.

Todd Apperson:

Do you have something that that suits you such as book? The e-book lovers usually prefer to select book like comic, limited story and the biggest an example may be novel. Now, why not striving How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) that give your fun preference will be satisfied by means of reading this book. Reading practice all over the world can be said as the means for people to know world far better then how they react towards the world. It can't be explained constantly that reading addiction only for the geeky man but for all of you who wants to possibly be success person. So , for all of you who want to start reading through as your good habit, you could pick How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) become your personal starter.

Michael Castillo:

What is your hobby? Have you heard this question when you got students? We believe that that issue was

given by teacher with their students. Many kinds of hobby, Everybody has different hobby. And you know that little person such as reading or as examining become their hobby. You must know that reading is very important as well as book as to be the matter. Book is important thing to include you knowledge, except your teacher or lecturer. You get good news or update in relation to something by book. Many kinds of books that can you decide to try be your object. One of them is this How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications).

Download and Read Online How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson #JN2VP9HE7LZ

Read How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson for online ebook

How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson books to read online.

Online How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson ebook PDF download

How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson Doc

How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson Mobipocket

How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson EPub

JN2VP9HE7LZ: How to Count: An Introduction to Combinatorics, Second Edition (Discrete Mathematics and Its Applications) By R.B.J.T. Allenby, Alan Slomson