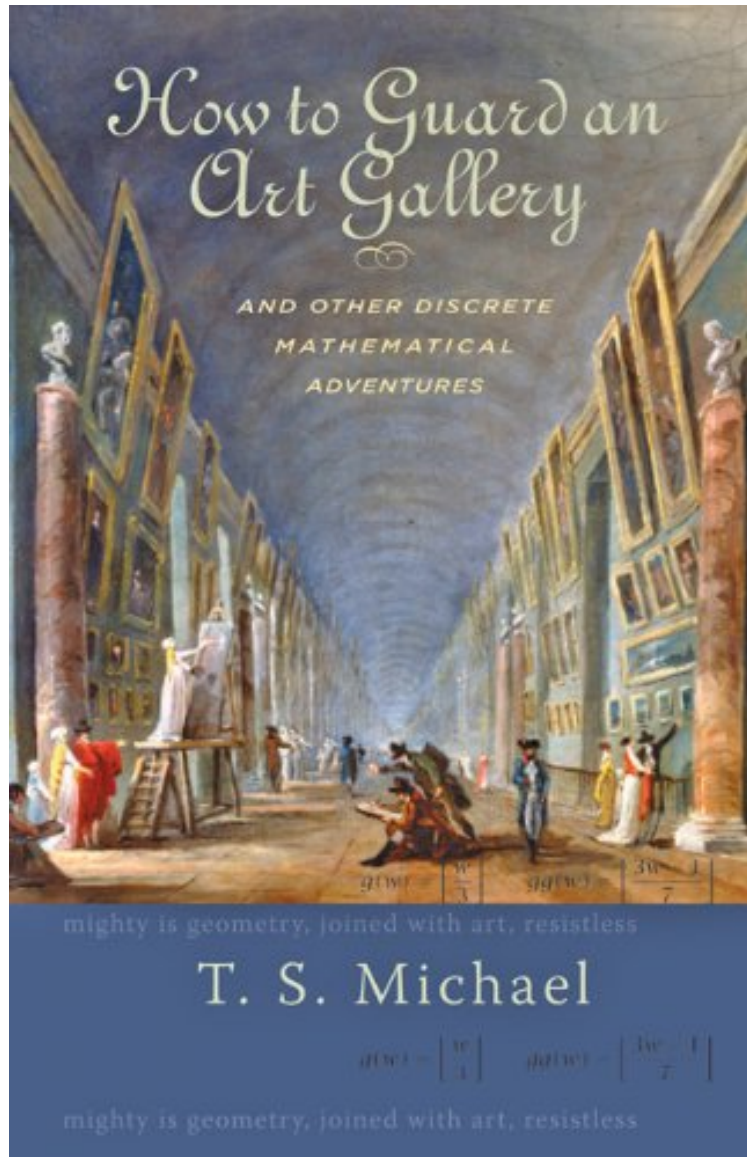


(Download) How to Guard an Art Gallery and Other Discrete Mathematical Adventures

How to Guard an Art Gallery and Other Discrete Mathematical Adventures

T.S. Michael

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#6742251 in Books Johns Hopkins University Press 2009-07-30 Original language: English PDF # 1 8.50 x .90 x 5.50l, .95 #File Name: 0801892988272 pages | File size: 25.Mb

T.S. Michael : How to Guard an Art Gallery and Other Discrete Mathematical Adventures before purchasing it in order to gage whether or not it would be worth my time, and all praised How to Guard an Art Gallery and Other Discrete Mathematical Adventures:

1 of 1 people found the following review helpful. Fatal FlawBy Michael R. SteeleI agree with the other reviewers

about the positive aspects of this book. It covers some very interesting problems and areas in discrete mathematics. The tone of the book is intuitive and conversational. Often times the theorems are just stated and left without proof but this is a minor complaint because there are extensive references at the end of every chapter. The proofs can be looked up. The fatal flaw comes with the problems. The book seems to be geared to people that would use it for independent study, but there are no solutions to any of the problems and I found myself really wanting answers or hints to a good portion of the problems.

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By MathFire
This book was recommended. I said I would buy it and am considering which of the three formats to purchase. With e-text math and science books, my question is always, "Are the equations and graphics well rendered?" I check e-text reviews but find that the same reviews are often listed for all three formats. Rarely have I seen a review aimed specifically at the e-text edition. Can anyone comment upon the quality of the math typesetting and graphics in this e-text?

3 of 3 people found the following review helpful. Wonderful Selection
By Steven Pearlman
Fantastic read. While definitely in "largely nontechnical language," it may be too complex for some. Anyone with decent mathematical intuition will greatly enjoy the book- not too simple, not overly complicated. The problems are interesting and provocative real-world "riddles", ie problems non-mathematicians can actually relate to (as opposed to strictly theoretical pure mathematics problems). Highly recommended for anyone with an interest in the applications of discrete mathematics.
-Applied Mathematics and Statistics Student.

What is the maximum number of pizza slices one can get by making four straight cuts through a circular pizza? How does a computer determine the best set of pixels to represent a straight line on a computer screen? How many people at a minimum does it take to guard an art gallery? Discrete mathematics has the answer to these and many other questions of picking, choosing, and shuffling. T. S. Michael's gem of a book brings this vital but tough-to-teach subject to life using examples from real life and popular culture. Each chapter uses one problem such as slicing a pizza to detail key concepts about counting numbers and arranging finite sets. Michael takes a different perspective in tackling each of eight problems and explains them in differing degrees of generality, showing in the process how the same mathematical concepts appear in varied guises and contexts. In doing so, he imparts a broader understanding of the ideas underlying discrete mathematics and helps readers appreciate and understand mathematical thinking and discovery. This book explains the basic concepts of discrete mathematics and demonstrates how to apply them in largely nontechnical language. The explanations and formulas can be grasped with a basic understanding of linear equations.

Seven great chapters that make discrete mathematics much more relevant to the real world. (John L. Hubisz The Physics Teacher)
A valuable reference for instructors teaching these topics. (Choice)
Accessible and engaging, with many examples, pithy section titles, exercises, historical notes, and a bibliography for further reading. (Matthias Beck Mathematical Sciences)
About the Author
T. S. Michael is an associate professor of mathematics at the United States Naval Academy.