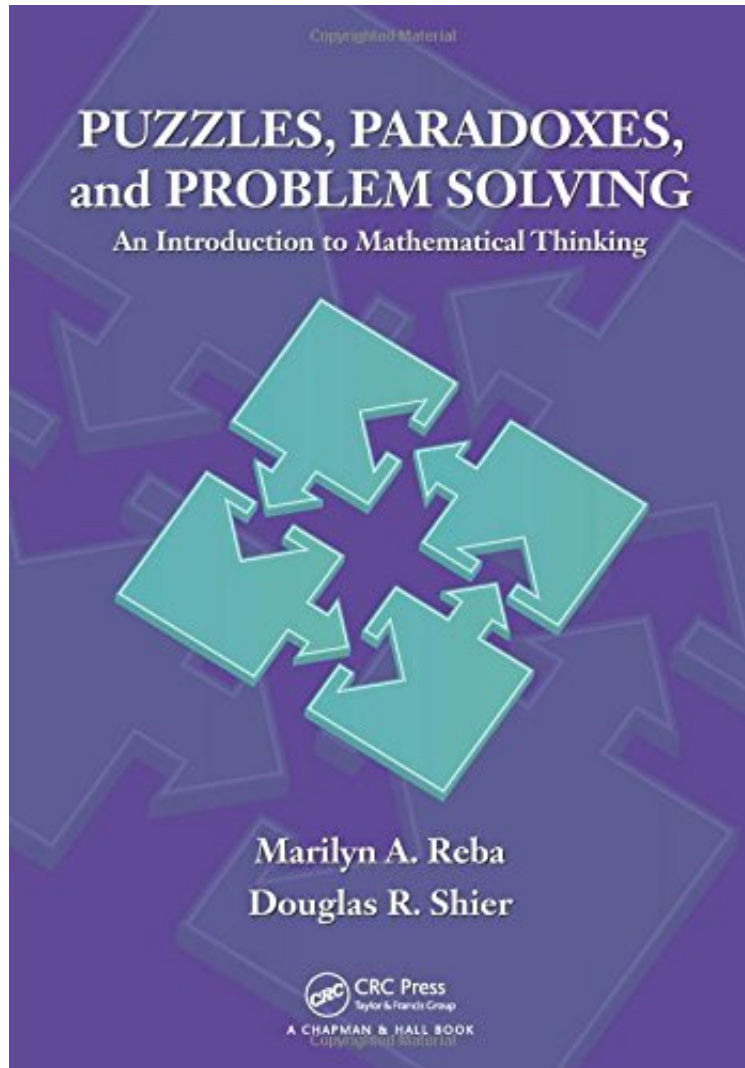


[Pdf free] Puzzles, Paradoxes, and Problem Solving: An Introduction to Mathematical Thinking

Puzzles, Paradoxes, and Problem Solving: An Introduction to Mathematical Thinking

Marilyn A. Reba, Douglas R. Shier
audiobook / *ebooks / Download PDF / ePub / DOC



#1742733 in Books 2014-12-15 Original language: English PDF # 1 10.10 x 1.70 x 6.80l, .0 #File Name: 1482227533605 pages | File size: 33.Mb

Marilyn A. Reba, Douglas R. Shier : Puzzles, Paradoxes, and Problem Solving: An Introduction to Mathematical Thinking before purchasing it in order to gage whether or not it would be worth my time, and all praised Puzzles, Paradoxes, and Problem Solving: An Introduction to Mathematical Thinking:

1 of 1 people found the following review helpful. I would recommend this book and course for every college studentsBy Dwight WilliamsThis book arrived before the date suggested by the shipper.The book is one that let you think on the simple things you learned from high school throughout college. I was impressed with the clarity on the presentation of the material. I would recommend this book and course for every college students0 of 1 people found

the following review helpful. Five StarsBy CustomerMet

A Classroom-Tested, Alternative Approach to Teaching Math for Liberal Arts Puzzles, Paradoxes, and Problem Solving: An Introduction to Mathematical Thinking uses puzzles and paradoxes to introduce basic principles of mathematical thought. The text is designed for students in liberal arts mathematics courses. Decision-making situations that progress from recreational problems to important contemporary applications develop the critical-thinking skills of non-science and non-technical majors. The logical underpinnings of this textbook were developed and refined throughout many years of classroom feedback and in response to commentary from presentations at national conferences. The text's five units focus on graphs, logic, probability, voting, and cryptography. The authors also cover related areas, such as operations research, game theory, number theory, combinatorics, statistics, and circuit design. The text uses a core set of common representations, strategies, and algorithms to analyze diverse games, puzzles, and applications. This unified treatment logically connects the topics with a recurring set of solution approaches. Requiring no mathematical prerequisites, this book helps students explore creative mathematical thinking and enhance their own critical-thinking skills. Students will acquire quantitative literacy and appreciation of mathematics through the text's unified approach and wide range of interesting applications.

" an interesting approach to the world of mathematics. The layout is good, as is the coverage. The reinforcing exercises are excellent. Using logic and other techniques, the text lays out methods to help students learn to think in a mathematical manner. Summing up: Recommended. General readers, lower- and upper-division undergraduates." M. D. Sanford, Felician College, Lodi, New Jersey, USA for CHOICE, November 2015
About the Author Marilyn A. Reba is a senior lecturer and Douglas R. Shier is a professor emeritus, both in the Department of Mathematical Sciences at Clemson University. The logical underpinnings of this textbook were developed and refined throughout many years of classroom feedback and in response to commentary from presentations at national conferences. Selected material from this book is currently being used in the Department of Mathematical Sciences liberal arts mathematics course and in a problem-solving course in the Honors College.