



# Mathematical Puzzles: A Connoisseur's Collection

*By Peter Winkler*

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## **Mathematical Puzzles: A Connoisseur's Collection** By Peter Winkler

Collected over several years by Peter Winkler, of Bell Labs, dozens of elegant, intriguing challenges are presented in *Mathematical Puzzles*. The answers are easy to explain, but without this book, devilishly hard to find. Creative reasoning is the key to these puzzles. No involved computation or higher mathematics is necessary, but your ability to construct a mathematical proof will be severely tested—even if you are a professional mathematician. For the truly adventurous, there is even a chapter on unsolved puzzles.

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## **Editorial Review**

### **Review**

" Winkler's book will certainly appeal to the mathematician, as well as to students of all ages?high-school, college, and graduate. His philosophy of what constitutes a good puzzle is right on the mark, showing that this Connoisseur's Collection really is of quality and depth. -James Tanton, MAA Online, September 2004  
""I have gained great satisfaction from those [puzzles] I've managed to solve . . . This is a great collection of seriously hard questions."" -*The Mathematical Gazette*, March 2006

""As an enthusiastic solver and collector of mathematical puzzles myself, I was absolutely delighted with this book. The sheer density of mathematical ideas and challenges sets it apart from other books of a similar nature while the lucid yet informal style of exposition makes the journey from ignorance to enlightenment enjoyable."" -Norman Do, *The Australian Mathematical Society Gazette*, July 2004"

### **About the Author**

Peter Winkler is Director of Fundamental Mathematics Research at Bell Labs, Lucent Technologies. Currently he is on sabbatical at the Institute for Advanced Study in Princeton, NJ. He is the author of 125 research papers in mathematics and holds a dozen patents in computing, cryptography, holography, optical networking, and marine navigation.

In some circles he is best known as the inventor of cryptologic methods for the game of bridge, currently illegal for tournament play in most of the western world.

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