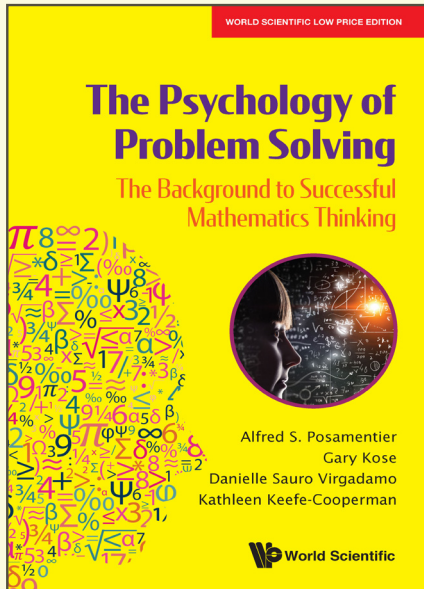


The Psychology of Problem Solving

The Background to Successful Mathematics Thinking



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ABOUT THE BOOK

The art or skill of problem solving in mathematics is mostly relegated to the strategies one can use to solve problems in the field. Although this book addresses that issue, it delves deeply into the psychological aspects that affect successful problem-solving. Such topics as decision-making, judgment, and reasoning as well as using memory effectively and a discussion of the thought processes that could help address certain problem-solving situations.

Most books that address problem-solving and mathematics focus on the various skills. This book goes beyond that and investigates the psychological aspects to solving problems in mathematics.

READERSHIP

Students, researchers, and general public.

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- Introduction
- A Brief History of Problem Solving
- Exploring the Problem Space: Problem-Solving Strategies
- Judgement, Reasoning, and Decisions
- Disinterest and Anxiety Versus Motivation and Confidence
- Inattention and Forgetfulness Versus Focused Attention and Working Memory
- Thinking Forward and Backward: Intuitive and Deliberative Thought
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