Using Technology for Problem Solving in Middle and High School Mathematics
Investigations Using Scientific and Graphing Calculators, Spreadsheets, and The Geometer's Sketchpad®
Kenneth P. Goldberg

Firmly rooted in the NCTM Principles and Standards, Using Technology for Problem Solving in Middle and High School Mathematics examines why technology is essential to today's mathematics classroom, and illustrates how it can encourage and enhance your students' study and understanding of mathematics. This inquiry-based text provides a five-step model and 23 sample investigations that demonstrate how students can become better problem solvers through the use of four types of instructional technology: the scientific calculator, the graphing calculator, spreadsheet software, and The Geometer's Sketchpad® software.

Here's what reviewers say about this text:

"The five-step model provided here is excellent, giving teachers a rich mathematical perspective to draw upon. This process moves students from inductive explorations to deductive justifications of the results, which is aligned with current theories on how students best learn."
Dr. Robert M. Horton
Clemson University

"I like the organization of the investigations; they include a nice variety of topics and tend to avoid the 'already known' examples. The level of technology used moves from simple to more complex, and the reader is exposed to potentially new uses of the technology beyond commonly used (novice) features."
Dr. Linda Bolte
Eastern Washington University

"I really like the idea of the research summaries. In all cases, I think bringing mathematics research into the practice arena is extremely useful and productive."
Dr. Janet Bowers
San Diego State University

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