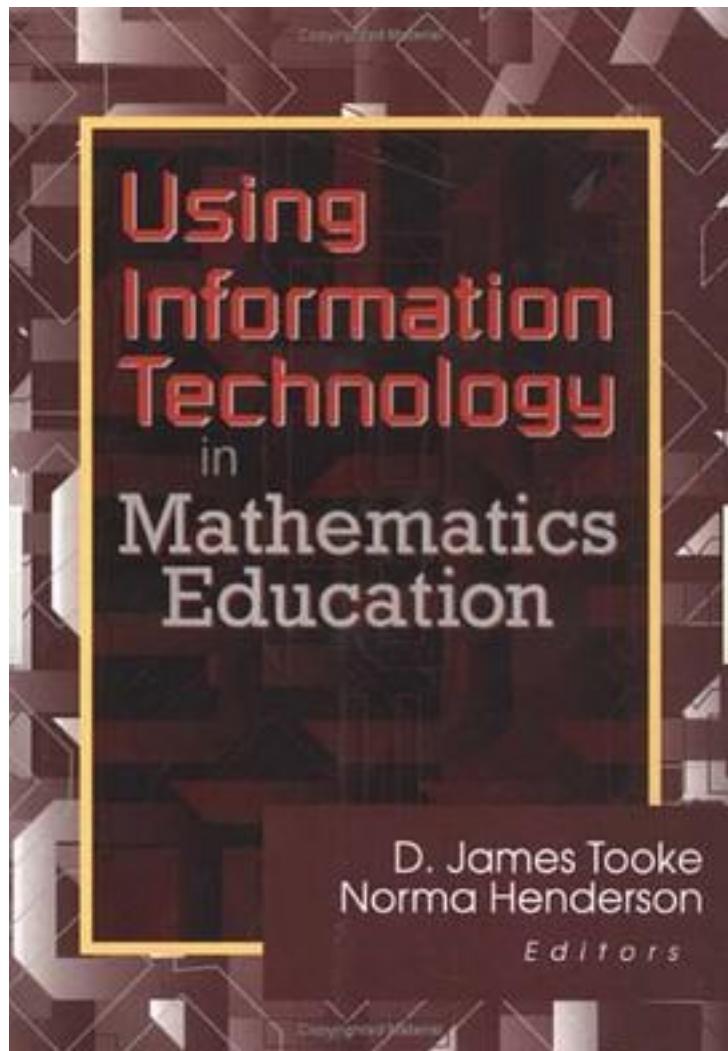


# Using Information Technology in Mathematics Education



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Computers have changed the ways that mathematics are taught and learned. Is your institution taking advantage of what today's technology offers? With contributions from researchers and practitioners alike, *Using Information Technology in Mathematics Education* explores the impact of the computer on the curriculum, the teaching and learning of mathematics, and the professional development of teachers, both pre-service and in-service. As editor James Tooke states: "The connection between mathematics and the computer is obvious. Elementary notions of mathematics gave rise to the computer; advanced notions gave it a more powerful state. As the computer advanced, it expanded mathematics, allowing the creation of further branches of the field; for instance, fractal geometry had no reality until the advent of high-speed computers." In its look at the relationship between mathematics, the computer, and mathematics education, *Using Information Technology in Mathematics Education* addresses the computer as a vehicle for teaching calculus at Texas A&M includes reports from several programs that have utilized the computer when teaching mathematics at lower levels of content than calculus such as intermediate algebra and geometry examines the computer's role in student learning probability discusses the use of computers in the professional development of teachers explores ways to use computers to reduce mathematics anxiety *Using Information Technology in Mathematics Education* examines the history and impact of computers in mathematics and mathematics education--from the early, crude computer-assisted instruction efforts through LOGO software for elementary schools, through MAPLE for the university, to the Web-based calculus courses now being offered by outstanding universities. Use it to facilitate learning and teacher growth in your institution!

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