



Numerical Analysis

By Richard L. Burden, J. Douglas Faires, Annette M. Burden

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This well-respected book introduces readers to the theory and application of modern numerical approximation techniques. Providing an accessible treatment that only requires a calculus prerequisite, the authors explain how, why, and when approximation techniques can be expected to work-and why, in some situations, they fail. A wealth of examples and exercises develop readers' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. Three decades after it was first published, Burden, Faires, and Burden's NUMERICAL ANALYSIS remains the definitive introduction to a vital and practical subject.

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Editorial Review

About the Author

Richard L. Burden is Emeritus Professor of Mathematics at Youngstown State University. His master's degree in mathematics and doctoral degree in mathematics, with a specialization in numerical analysis, were both awarded by Case Western Reserve University. He also earned a masters degree in computer science from the University of Pittsburgh. His mathematical interests include numerical analysis, numerical linear algebra, and mathematical statistics. Dr. Burden has been named a distinguished professor for teaching and service three times at Youngstown State University. He was also named a distinguished chair as the chair of the Department of Mathematical and Computer Sciences. He wrote the Actuarial Examinations in Numerical Analysis from 1990 until 1999.

J. Douglas Faires, late of Youngstown State University, pursued mathematical interests in analysis, numerical analysis, mathematics history, and problem solving. Dr. Faires won numerous awards, including the Outstanding College-University Teacher of Mathematics by the Ohio Section of MAA and five Distinguished Faculty awards from Youngstown State University, which also awarded him an Honorary Doctor of Science award in 2006.

Annette M. Burden is a Professor of Mathematics at Youngstown State University (YSU) and for four years served as YSU Interim Distance Education Director. Her master's degree in mathematics was awarded by Youngstown State University and her doctoral degree in mathematics educational technology with a specialization in numerical analysis was awarded by Union Institute & University. Dr. Burden worked under Carnegie Mellon Professor Werner C. Rheinboldt from the University of Pittsburgh for several years. She is past President of the International Society of Technology in Education's Technology Coordinators, was appointed to the MAPLE Academic Advisory Board, and served as co-chair of Ohio's Distance Education Advisory Group. She has also developed numerous upper-level online courses including courses in Numerical Analysis and Numerical Methods. Dr. Burden has been named a distinguished professor for teaching and service three times at Youngstown State University.

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