Título: An Introduction To Modern Mathematical Computing

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Thirty years ago, mathematical computation was difficult to perform and thus used sparingly. However, mathematical computation has become far more accessible due to the emergence of the personal computer, the discovery of fiber-optics and the consequent development of the modern internet, and the creation of MapleÖ, Mathematica®, and Matlab®.

An Introduction to Modern Mathematical Computing: With MapleÖ looks beyond teaching the syntax and semantics of Maple and similar programs, and focuses on why they are necessary tools for anyone who engages in mathematics. It is an essential read for mathematicians, mathematics educators, computer scientists, engineers, scientists, and anyone who wishes to expand their knowledge of mathematics. This volume will also explain how to become an "experimental mathematician," and will supply useful information about how to create better proofs.

The text covers material in elementary number theory, calculus, multivariable calculus, introductory linear algebra, and visualization and interactive geometric computation. It is intended for upper-undergraduate students, and as a reference guide for anyone who wishes to learn to use the Maple program.