

Gain the competitive advantage with

# Math *Edge*<sup>TM</sup>

MAPLE

**math:** *n.* a foundational body of knowledge relating numbers, quantity, space, and time, used as a principal analytical framework in engineering, natural sciences, economics, and many other disciplines.

**edge:** *n.* 1. a border separating different regions. 2. the sharpened side of a blade. 3. the forefront of innovation, as in *the cutting edge*. 4. a competitive advantage, as in *to have an edge*.

**MathEdge:** *n.* the new frontier for scientific computation.



# MathEdge™

**M**athEdge is a complete mathematical and graphics engine with over 14 years of R&D by one of the most respected companies in mathematical software. Combine this expertise with efficient, compact, flexible, and easy-to-use architecture, and you can rapidly integrate state-of-the-art symbolic, numeric, and graphical features into your application.

## Reduce your development time with MathEdge

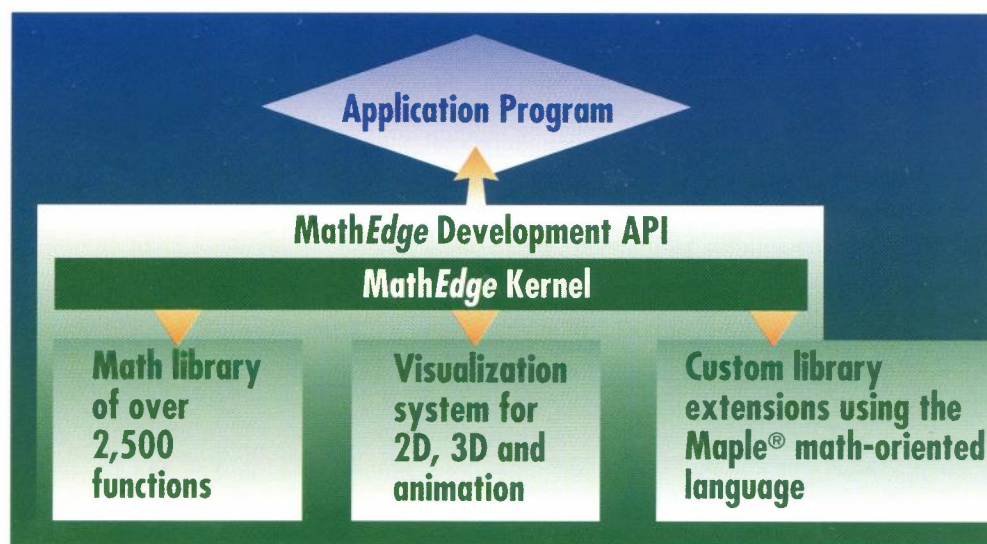
Adding MathEdge is like adding an entire Mathematical Algorithms Department to your development group. MathEdge frees your technical development group to concentrate on developing the core product, thus reducing your development time, saving you money, and giving you the competitive advantage.

## Add power and flexibility to your software

MathEdge takes your application beyond the traditional limits of numerics-based technical software. Your users will gain the benefits of exact analytical solutions, symbolic parameter analysis, mathematical post-processing, and fully interactive scientific visualization. Your software will produce more accurate, flexible, and useful solutions. Your users will become more productive and creative, and that gives you a competitive advantage.

## Join the ranks of top developers who use MathEdge

Leading software manufacturers, including MathSoft (Mathcad), The MathWorks (MATLAB), and Visual Numerics (PV-Wave), have produced innovative products with MathEdge which are being used by hundreds of thousands of users worldwide.



MathEdge links your application program to a suite of powerful tools through the easy-to-use API.

## Efficient Architecture

**On-the-fly Math Management** provides complete flexibility in the way math information is represented. This virtually eliminates the traditional hard-coding or parsing needed to accommodate different mathematical situations.

**Advanced Data Structures** including hash and remember tables, mathematical sets, and customizable operators allow efficient management of numeric, symbolic, and graphical information.

**Fully Expandable** through the Maple programming language. This easy-to-use procedural language allows you to add custom math functions to the suite of over 2,500 existing functions in the standard Maple V library.

**Choice of APIs:** An easy-to-use API based on simple text strings or an advanced API based on Directed Acyclic Graphs (DAGs) allows you to communicate with the MathEdge Kernel with a minimum of code and programming effort.

## Platform Availability

**Microsoft Windows:** DLL, DDE or object libraries for WATCOM C.

**UNIX:** Object libraries for SUN.

**Inquire about other platforms.**

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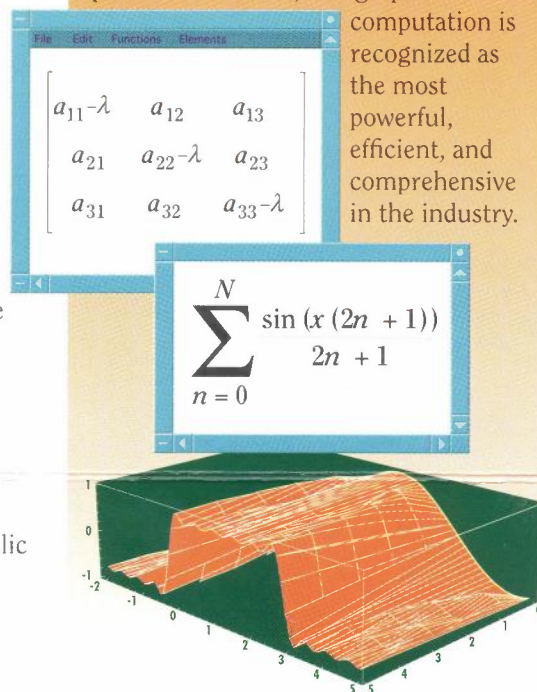
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## The Power of Maple V®

With MathEdge you integrate the same legendary math and graphics engine that powers Maple V, the most comprehensive interactive mathematical problem-solving system, into your Microsoft Windows or UNIX programs.

Maple V's suite of over 2,500 functions for symbolic, arbitrary-precision numeric, and graphic

computation is recognized as the most powerful, efficient, and comprehensive in the industry.



# MAPLE

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