
Maple

Maple V Release 5.1 is a powerful interactive computer algebra system that provides a complete mathematical environment for the manipulation of symbolic algebraic expressions, arbitrary-precision numerics, both two-dimensional and three-dimensional graphics, and programming. Maple V is used worldwide by educators, scientists, engineers, researchers, and students in the physical sciences, business management, economics, finance, and engineering. Specific applications include VLSI design, robotics, laser design, and brain research. Maple V's extensive library features over 2,700 functions that are used in many scientific and engineering applications. Maple V is available for a wide range of computer systems. Derived from over a decade of world-class research, development, and customer service, Maple V Release 5.1 provides all the right tools for users in education, research, and industry.

Hyperlink Maple Worksheets, with URL addressing in the document linking feature. This allows you to publish Maple Worksheet files on the Internet and download them directly into Maple V Release 5.1 by clicking on a URL link. Also, if you set up a link to an HTML file inside a Maple Worksheet and click on it, your Internet browser will automatically launch with the file. Publishing technical papers on the web is easier than ever before with Maple V's export to HTML feature. With a few simple clicks of the mouse you can export Maple V worksheets quickly and easily to HTML files.

You can create a spreadsheet* within Maple V to capture both spreadsheet functionality and the symbolic power of Maple V. For example, you can create a column of symbolic expressions and calculate their integrals in the next column, evaluate an entire spreadsheet or easily create a matrix by dragging and dropping the spreadsheet elements into your Maple worksheet.

An intuitive graphical user interface makes Maple V the undisputed leader for usability and flexibility among mathematical packages. Maple V is designed as a worksheet-based environment—the most efficient way to perform complex computations and provide an innovative document-processing environment. Context-sensitive menus in Maple V guide you through mathematical operations and make style and plot attribute changes easy. Simply click on an expression and Maple V will bring up a menu of operations you can apply to that expression. The “point and click” palette provides an intuitive way to enter expressions. From integrals to matrices, the palette provides two-dimensional templates directly in the Maple worksheet. A built-in expression editor offers you a fast way to alter expressions and enter Maple commands. Maple V's new drag and drop feature lets you easily move or copy expressions within a worksheet. This feature also makes it easier than ever to plot graphs—simply drag and drop an expression into a plot window to create the corresponding plot.

Improvements have been added to Release 5 so that you can solve a wider class of problems than ever before. Newly improved capabilities include integral transforms, elliptic integration, differential equation tools, combinatorial structures, Groebner bases, and statistical plotting. Improvements have also been made to the 3-D geometry package, and the plotting tools package now includes an export to VRML feature.

<http://www.maplesoft.com/maplevr5.html>

Platform: Windows NT

License restrictions: none

Number of copies: 50

Requested by: J. Davis
