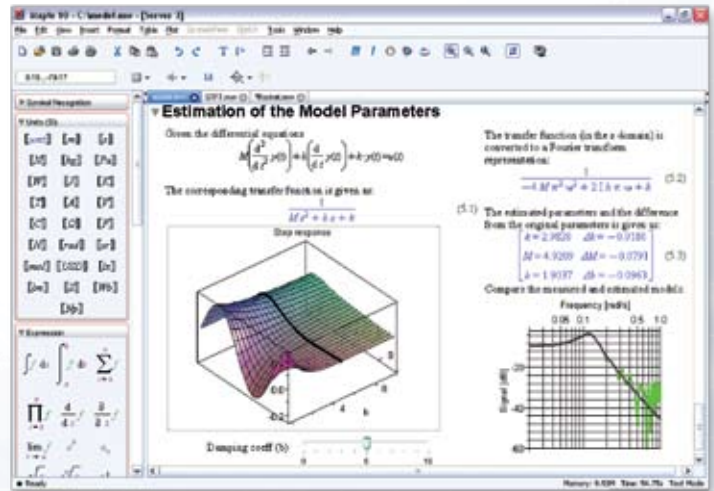


# Maple™ 10

Maple™ is the ultimate productivity tool for solving mathematical problems and creating interactive technical documents. Intuitive and easy to use, it delivers the most advanced, complete, error-free mathematical capabilities that can only come from a market-leading tool that has been developed and tested over the last 25 years.



## Harnessing the Power of Mathematics in Engineering Design

Maple allows you to create rich, executable technical documents that provide both the answer and the thinking behind the analysis. Maple documents seamlessly combine numeric and symbolic calculations, explorations, mathematical notation, documentation, buttons and sliders, graphics, and animations that can be shared and reused by your colleagues.

### Maple helps you to...

#### ...do more in less time

In order to help you deliver new products to market "better, faster, cheaper", Maple not only saves time by doing the math for you, it allows you to easily enter problems intuitively, and present your solutions in a readily understood mathematical format. With Maple, you can reduce your project time from months to days.

#### ...reduce risk and design costs

Maple is the only analytical platform that has the computational breadth and depth to manage any complexity of engineering calculation - including the ability to deal with units and tolerances - so you eliminate mathematical errors, and reduce the risk of delay and escalating costs.

#### ...make innovation happen

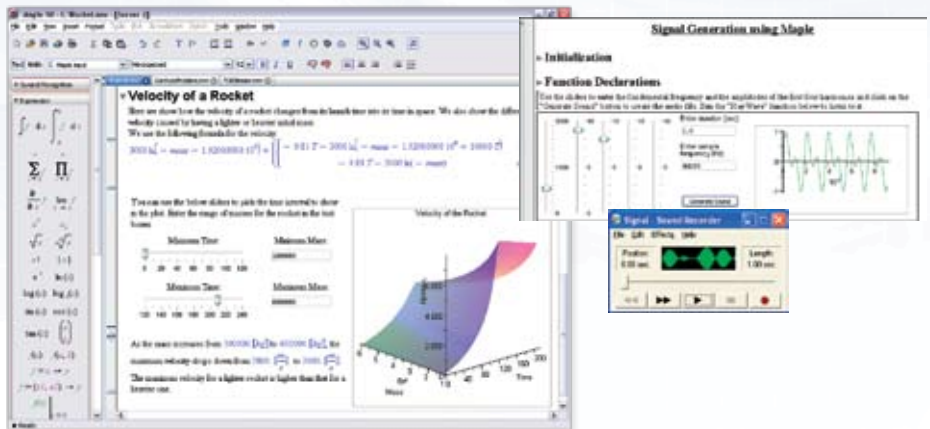
The desire for competitive differentiation drives innovation in your products, but in formulating innovations as design concepts, you can very quickly hit the limits of dedicated design tools. Maple incorporates the knowledge of hundreds of mathematicians, with the best brains in computer science, numeric analysis and symbolic (algebraic) computation in one package to deliver the computational "headroom" that accommodates the most complex calculations, so you don't need to worry about running out of power.

#### ...capture and reuse engineering knowledge

Maple allows you to do more than calculate and simulate: you can explore, collaborate, communicate, test, present and manage all of the diverse range of information you need for the job. And when the project is complete, the knowledge that went into developing the solution is encapsulated in a readily reusable form that minimizes the amount of rework required for future projects.

### Maple is a Calculation Tool...

Maple is the perfect environment for performing simple to highly complex calculations in a way that can be readily stored and used later. Engineering calculations can benefit from the use of dimensions and units to ensure the integrity of the mathematics and deliver error-free conversions, and tolerated parameters that will allow you to rapidly perform worst-case analyses on your calculations.



The new document mode in Maple allows you to easily lay out mathematical expressions, text and graphics in a rich, interactive technical document. Make changes to the input values, then click a compute button and the document updates the calculation and displays the new results.

This is ideal for creating design sheets and manuals, as well as publication-quality technical papers that not only present your knowledge but allow others to easily validate it, and even reuse it in their own projects.

Maple provides all the tools you need to rapidly create your document - extensive symbol and operator palettes, context menus, Task Assistants,

the Interactive Plot Builder, and arguably the most intuitive equation editor ever built. It also includes layout tools so you can create multi-column documents and define the order in which the document is executed.

Finally, if you wish to take the interactivity of your document to another level, Maple offers UI Components that allow you to build your own user interface to your application. Instead of typing in changes to the input data, you can incorporate sliders, buttons, drop-down menus and text entry fields into your document for easy input, along with 2D-math and plotting components to display the results.

