

Course Overview

This "hands-on" Mathcad training course is designed to show you the principles underlying every Mathcad document. It will not teach you the mathematics you need to know for your particular problem, but instead uses examples from a number of engineering areas to show how Mathcad is applied to real-world engineering or scientific problems.

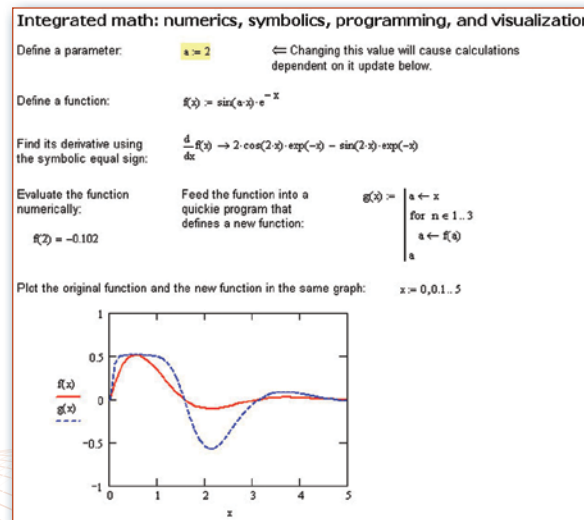
You will learn how to refer to data and to algebraic variables in the Mathcad environment, and how to exchange data between other environments, such as spreadsheets, and Mathcad.

Mathcad has a large number of data manipulations available to you as mathematical functions, and these will be introduced, as will basic matrix methods so that you can so speed up your calculations. Symbolic mathematical techniques are also covered.

Programming techniques will be introduced, but it is important to realise that Mathcad is not primarily a programming environment.

Course Highlights

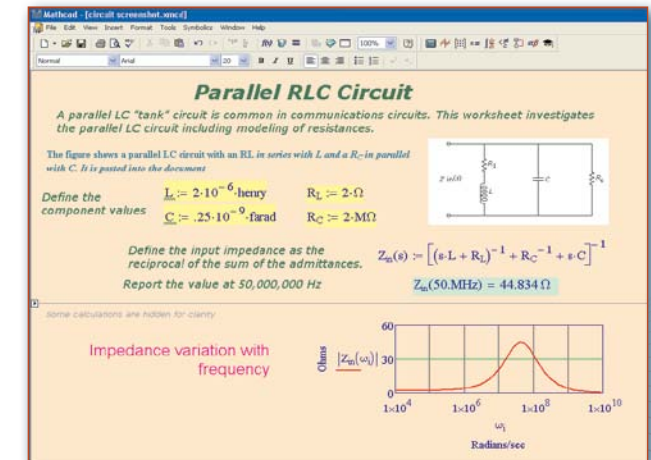
- Basic concepts of Mathcad - assigning variable names, range definitions
- Using and transforming units
- Use of indexed variables in mathematical expressions
- Editing mathematical expressions
- Use of palettes to enter mathematical operators
- Mathcad's mathematical functions
- Solving sets of simultaneous equations in several unknowns
- Using matrix algebra
- Plotting 2D and 3D graphs
- Incorporating illustrations in your documents
- Importing data files from Excel or text
- Programming methods in Mathcad
- Using symbolic mathematics techniques
- Use of the Resource Centre



Why use Mathcad?

With Mathcad's live, free-form interface, you enter your expressions using standard maths notation and as you type, Mathcad calculates the result instantly. This makes it easy for you to perform your calculations, easy for your colleagues to read them, and easy for your management to understand them. No longer will you have to put up with formulae hidden in your spreadsheet where no-one can find the small but important error.

The wide range of tools for calculation and analysis, plus unprecedented speed and accuracy, make Mathcad a tool that will save you hours of time.



On-site Training Option

We regularly train groups of people on-site in a wide variety of industries and locations spanning from government departments, financial institutions, engineering companies, and basic research groups. We make an effort to customise the courses to suit your problems and your interests.

Register online at www.hrs.co.nz/mathcadtraining

