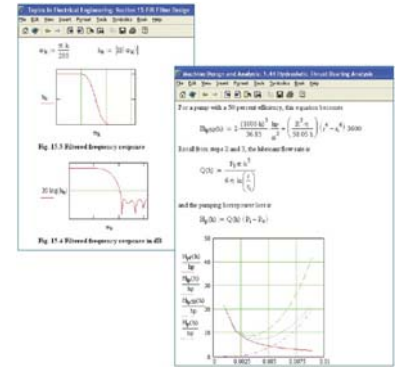


# Hint Model Analyser (HMA)

Say, you have a mathematical model of an industrial process. You want to fine-tune or (re)view this model and, if necessary, link this model to real-time data from "the real World". Hint has developed the Hint Model Analyser (HMA) for this purpose. It uses Mathcad to create and visualize the mathematical models.



## MathCad

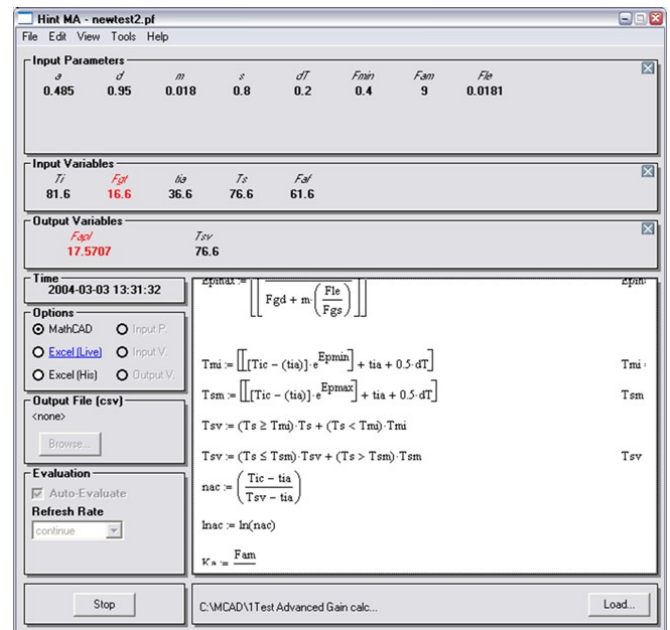
Mathcad is an integrated environment for performing and communicating math-related work. Mathcad provides hundreds of operators and built-in functions for solving technical problems. Use Mathcad to perform numeric calculations or to find symbolic solutions. It automatically tracks and converts units and operates on scalars, vectors, and matrices. (see <http://www.mathcad.com/>).

By implementing a mathematical model in Mathcad, you easily can use the model by passing through the necessary constants and variables. One great advantage of Mathcad is the mathematical notation of formulas. This makes a model much clearer and better to understand.

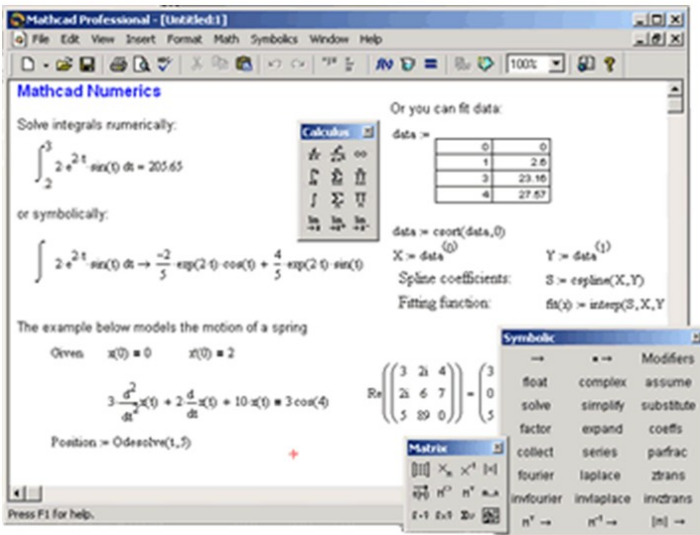
## Hint Model Analyser

Hint has developed the Model Analyser. This application makes it easy to link real-time data to a Mathcad model. In the Model Analyser you can connect each data point to a variable in the Mathcad model.

When you have provided the necessary information, you can calculate the model with a given refresh rate. It is possible to change the model during this continuous calculating, so you can fine-tune the model. This "on-the-fly" changing of the model saves a lot of time compared to manually changing the model and providing data.



It is also possible to pass through variables from one model to another. Linking can be done in a linear or tree structure. All (process) models in a structure can be (re)viewed, changed, tested and fine-tuned.



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