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Try to do a search for genetic algorithms. They were written specifically to attack the general minimization problem. For the polynomial case, there is some hope. It's very tricky in Mathcad to get all the functions to talk together and pass what you want.

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In this paper, an example problem was used to demonstrate the application of Mathcad in solving the tasks of the dynamics of rigid bodies. The task was to determine angular acceleration for a given moment and the moment value at minimum acceleration,

~~Solved: Units and solving of system of linear equation - o ...~~

This chapter describes how to solve both ordinary and partial differential equations having real-valued solutions. Mathcad Standard comes with the rkfixed function, a general-purpose Runge-Kutta solver that can be used on nth order differential equations with initial conditions or on systems of differential equations.

~~Making Algebra Problems Easier with Mathcad: Quadratic ...~~

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~~Mathcad in Teaching Rotor and Structural Dynamics*~~

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~~About PTC Mathcad~~

The Mathcad [2] features of matrix handling, such as eigenvalue calculations, fits perfectly for this assignment, making it possible for the students to advance further in learning dynamics than they otherwise would have managed. The Structural Dynamics Course is given in the third year of the Bachelor program.

~~Free Solved Physics Problems: Dynamics~~

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The Mechanical Engineering Collection consists of worked through problems in the topics of Statics, Dynamics, Vibrations,

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and Machine Design. Common mechanical engineering calculations like: force, moment, work, energy, momentum, vibration, stress, and fatigue are solved and documented showing users how to leverage PTC Mathcad's wide variety of functionality.

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Trying Solve Blocks . In Mathcad, you can also use solve blocks to quickly get answers for your quadratic equations, again - without any factoring by hand . A solve block is a container for solving equations, or for solving an optimization problem. They use guess values and then step toward the solution in an iterative manner.

~~Mathcad Basics Webinar: Computer Algebra and Solve Blocks~~

Re: Units and solving of system of linear equation - one problem or bug. PTC Mathcad is smart enough (sometimes) to infer that a

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0 should have particular unit. PTC Mathcad 15.0 can always do that thanks to Static Unit Checking. However, static unit checking prevents mixed units in a matrix.

~~Mathcad—Solution of ODEs~~

Solution of variables within nonlinear expressions can either be difficult or impossible with analytic or symbolic techniques. When a numerical solution is required, a nonlinear solution technique...

~~Solve with 2 variables in 1 equation?—PTC Community~~

Mathcad displays the n solutions to the system of equations to the right of the arrow. Solving a system of equations symbolically: Solve block. Another way to solve a system of equations symbolically is to use a solve block, similar to the numerical solve blocks described , “Solving Equations.” • Type the word Given.

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