

DYNAST Software

Simplifies Physical Modeling of Multidisciplinary Systems

Distributed by **DYN**

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DYNAST provides:

- solution of nonlinear differential and/or algebraic equations submitted in a natural textual form
- simulation of dynamic system models submitted in a graphical form based on mere inspection of the real system configuration (the underlying equations are then formulated automatically)
- semisymbolic-form transfer functions and responses of automatically linearized system models
- online support for simulation, virtual experiments, and monitoring of submitted tasks (server version)

DYNAST free download at:

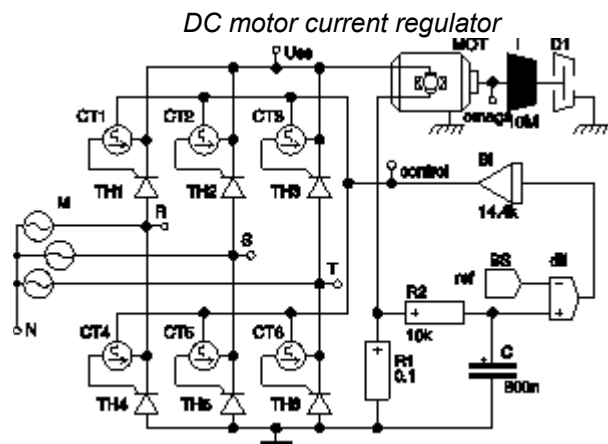
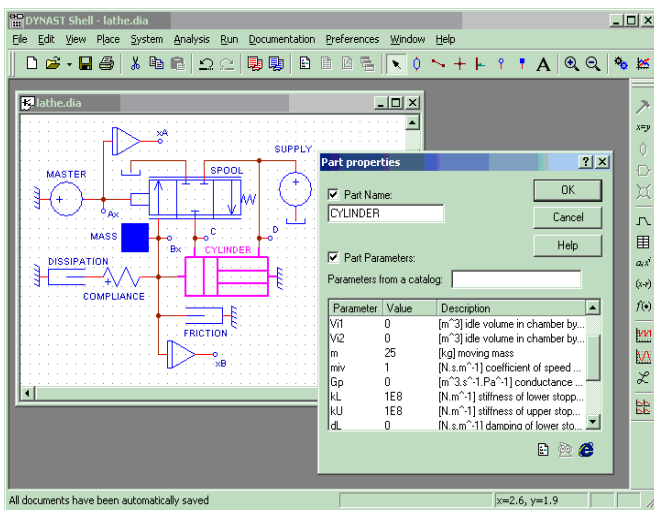
<http://virtual.cvut.cz/dyn/>

After installing this software on your PC with MS Windows NT/2000/XP, you will be able to use

- the DYNAST full version online as well as
- a DYNAST limited version off-line

Please, visit <http://dynast.net> or contact *DYN* if you are interested in

- using the full version of DYNAST off-line, or
- acquiring DYNAST for your server



Key features:

- easy intuitive use through wizards, no need to learn a simulation language, or to wait for a compilation
- robust algorithms, no numerical problems like those inherited in the block-diagram-oriented packages
- continuous syntax error analysis of submitted data
- automated documenting of simulations and models
- open libraries of models for many engineering components and dynamic effects
- large collection of solved problems from different engineering disciplines

DYNAST as a modeling toolbox for Matlab:

- exports transfer-function poles and zeros in M-files
- verifies analog control with realistic models
- verifies digital control of analog plants by DYNAST& Simulink co-simulation (see example below)

