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## **ROBUST CONTROL TOOLBOX AND SIMULINK CONTROL DESIGN SIMPLIFY COMPLEX CONTROL SYSTEMS TUNING IN SIMULINK**

*Help Engineers Automatically Tune Complex Control Systems*

**NATICK, Mass. – October 20, 2011** - MathWorks today announced new versions of two products, Robust Control Toolbox and Simulink Control Design, that enable engineers to automatically tune complex control systems modeled in Simulink.

Most embedded control systems have a fixed, decentralized architecture with simple tunable elements such as gains, PID controllers, and low-order filters. Enhancements to Robust Control Toolbox and Simulink Control Design let engineers automatically tune all controller elements without changing the controller structure. This eliminates the need for tedious and time-consuming methods of tuning multiloop, decentralized control systems such as successive loop closure.

With the new capabilities, control engineers can:

- Select Simulink blocks to tune
- Specify requirements for bandwidth, stability margins, and tracking performance
- Automatically tune all control system parameters simultaneously
- Update selected Simulink blocks with tuned values

The resulting design can be verified by simulating the model.

Learn more about tuning complex controllers modeled in Simulink by visiting [mathworks.com/products/robust](http://mathworks.com/products/robust).

### **About MathWorks**

MathWorks is the leading developer of mathematical computing software. MATLAB, the language of technical computing, is a programming environment for algorithm development, data analysis, visualization, and numeric computation. Simulink is a graphical environment for simulation and Model-Based Design of multidomain dynamic and embedded systems. Engineers and scientists worldwide rely on these product families to accelerate the pace of discovery, innovation, and development in automotive, aerospace, electronics, financial services, biotech-

pharmaceutical, and other industries. MathWorks products are also fundamental teaching and research tools in the world's universities and learning institutions. Founded in 1984, MathWorks employs more than 2200 people in 15 countries, with headquarters in Natick, Massachusetts, USA. For additional information, visit [www.mathworks.com](http://www.mathworks.com).

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