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You can download optsim 5.2 from our website for free! It is a powerful tool for simulation and optimization in engineering systems. Software engineers use optsim for a variety of tasks including: circuit design, product design, system modeling, process modeling, traffic management systems and many more. optsim enables dynamic simulation using the finite element method by providing a set of pre-built components as well as user created custom components. This software allows you to explore various optimization options with your model quickly and efficiently by providing an interactive environment to perform parameter sweeps or search based on best or worst case scenarios. optsim also offers the ability to compare results from dynamic simulations with static pre-simulation results using built-in static linear solver for static optimization. Other features include the ability to generate reports from simulation models, including plots, tables and graphs. In recent years optsim 5 has been used as a platform for various projects, published in journals and presented at international conferences.

The optsim framework is a component based environment where you can create custom components to simulate your specific models. Components are objects that perform a certain function in a model's simulation cycle. For example, they may perform the following functions: All components in optsim are structured using a hierarchical system. For example, you can create a new object that contains other objects. A new object will then automatically inherit all the components contained within it's parent object. All components also have an 'id' property which is used to uniquely identify each component. This is useful if you want to access or alter specific components or properties of an object in the future.

The current version of optsim is 5.2 (released Aug 23rd 2013). It supports Windows (XP SP3 and above) and Linux (GNU/Linux 2.6, x86-64) operating systems. optsim is distributed under the terms of the GNU General Public License v3.0 which is available at <https://www.gnu.org/licenses/gpl-3.0.en.html>.

The optsim team are working on a number of new features that will be included in future releases, including:

**MDF flow** The MDF flow feature enables you to simulate the production workflow of an automotive assembly line by modeling workstations, conveyor belts and 3D assembly models consisting of hundreds or thousands of parts to create realistic assembly scenarios.

**Layout design** The layout design feature enables you to create detailed floor plans of large facilities or manufacturing plants. It allows you to include various building blocks such as corridors, rooms, doors, stairs and elevators to create realistic floor plans.

**Multiphysics simulation** The multiphysics feature will allow you to simulate different types of physics in the same model. For example, you can model electrical systems that interact with thermal loads (heat) by coupling electromagnetic fields (EM), charged particles (QC) and fluid dynamics (FLU).

This useful feature allows for one component to monitor or control another component's parameters or states.

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