

**THE NUMERUS PLATFORM - AN INNOVATIVE SIMULATION AND MODELING
BUILDING ENVIRONMENT**

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ABSTRACT

Numerus is a computational modeling and simulation platform. Numerus offers a powerful yet easy-to-use desktop model authoring tool paired with an interactive browser based simulation runtime environment. Numerus' modeler is designed for modularity and loose coupling of interchangeable components, as well as rapid iteration development. Model composition is both visual and scriptable, providing a complete range of tools to build robust and complex models quickly and intuitively. The web based simulation environment allows for quick and professional deployment of interactive simulations for the user's authored models to a global audience at the touch of a button. The platform also includes cloud based services to support and enhance the capability and effectiveness of the modeling and simulation experience. These services will range from cloud storage, sharing and publication services to high performance server side computing services, integrated into the desktop as well as being accessible through the web.