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separation processes, e.g. distillation,
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encountered in the chemical industry,
requires thermodynamic models, which
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models designed to help institutions and
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scarce resources to activities to make

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the most of their circumstances. • More
generally, mathematical models designed
to help us make “ better ” decisions.

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optimization of microwave components

and antennas has made extensive use of an

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Optimization has been widely used in civil
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Mathematical optimization - Wikipedia

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generative models used in design optimization, where high-dimensional design variables are encoded in low-dimensional design space [13,14]. In addition, these models are utilized in the design exploration and shape

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parameterization [8,9]. The use of the
generative model to produce engineering
designs directly is limited [23].

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This new optimized design is analyzed
under radial, bending and lateral loads to

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determine the stresses induced in static condition of the wheel of automobile. The succeeded model is used to evaluate to determine its life period under radial loading condition. CAD Design of Wheel

Design and Weight Optimization of Aluminium Alloy Wheel

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A radial basis function (RBF) based machine learning algorithm is utilized to perform a computationally efficient design optimization and it is found to provide equivalent results with the physical model. The second application concentrates on the optimization of spatially varying fiber paths of a composite material.

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Components modeling In this study, the
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maximizing the annual energy production.
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radiation data on a horizontal surface are
used to calculate the radiation data on a
tilted surface.

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modeling and ...

A surrogate model is an engineering
method used when an outcome of interest

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cannot be easily directly measured, so a model of the outcome is used instead.

Most engineering design problems require experiments and/or simulations to evaluate design objective and constraint functions as a function of design variables. For example, in order to find the optimal airfoil shape for an aircraft wing, an

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engineer simulates the airflow around the wing for different shape variables (length, curvature, materi

Surrogate model - Wikipedia

To enable device-circuit-system co-design and optimization, a SPICE model of ReRAM that can reproduce the device

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characteristics in circuit simulations is needed. In this paper, we present a novel tool for ReRAM design including a physics-based SPICE model, the model parameters extraction strategy, as well as the system assessment method.

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