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6. *Design Definition and Multidisciplinary*

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consider the structural and
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optimization, Disk brake
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Considering Uncertainties

In optimum design of structural systems due to variations of the material, manufacturing variations, variations of the external loads and modelling uncertainty, the parameters of a structure, a structural system and its environment are not given, fixed

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coefficients, but random variables with a certain probability distribution.

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Uncertainties ...

570 Structural design optimization considering uncertainties the optimization process each structural design is checked whether it satisfies the provisions of the European design codes for steel structures (EC3 2003) with a prescribed probability of violation. 2 Formulations of

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probabilistic structural
optimization problems
Generally, in structural
optimization problems the
aim is to minimize the
weight of

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This book presents the
latest findings on
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considering uncertainties.
It contains selected
contributions dealing with
the use of probabilistic
methods for the optimal
design...

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Uncertainties ...

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Optimization Considering Uncertainties ...

Design optimization of steel structures considering

uncertainties 1.

Introduction. The

development of stochastic analysis methods that has

taken place during the last two decades [1] has... 2.

Deterministic-based design optimization. In single-objective deterministic-based sizing optimization

...

Design optimization of steel structures considering ...

Uncertainty is ubiquitous in practical engineering design applications. Recent years have witnessed a growing

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research interest in the study of structural topology optimization problems considering uncertainties.

Most of these works, however, are focused on the optimization of macro-scale structures.

Multi-scale robust design and optimization considering

...

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