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Reliability Based
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A novel methodology of reliability-based multidisciplinary design optimization under hybrid interval and fuzzy uncertainties - ScienceDirect.

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A novel methodology of reliability-based multidisciplinary ...

Reliability-Based Optimization (RBO) for engineering design deals mainly with two design attributes, the cost and the reliability of the design. The reliability considerations are typically driven by the probabilities of failure due to component

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failure events or a system failure event.

**Reliability-Based
Optimization for
Multidisciplinary ...**

In this paper, a subset simulation-based reliability analysis (SSRA) approach is combined with multidisciplinary design optimization (MDO) to improve the computational efficiency in reliability-based MDO (RBMDO)

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problems.

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Recently, solving the complex design optimization problems with design uncertainties has become an important but very challenging task in the communities of reliability-based design optimization (RBDO)

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Reliability Based
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and multidisciplinary
design optimization
(MDO).

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Considering the coupling among aerodynamic, heat transfer and strength, a reliability based multidisciplinary design optimization method for cooling turbine blade is introduced.

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Multidisciplinary analysis of cooling turbine blade is carried out by sequential conjugated heat transfer analysis and strength analysis with temperature and pressure interpolation.

Reliability based multidisciplinary design optimization of ...

The influence of uncertainty factors must be considered to

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ensure the reliability of the optimized design results, and reliability-based multidisciplinary design optimization (RBMDO) needs to be performed [4, 5].

Uncertainties can be categorized as aleatory and epistemic [6, 7].

Aleatory or objective uncertainties arise from the inherent randomness of a system.

Evidence-Based

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**Multidisciplinary
Design Optimization
with ...**

Reliability-Based
Multidisciplinary
Design Optimization
Using Subset
Simulation Analysis
and Its Application in
the Hydraulic
Transmission
Mechanism Design The
Monte Carlo simulation
(MCS) can provide high
reliability evaluation
accuracy.

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**Reliability-Based
Yan-Feng Li
Multidisciplinary
Design ...**

An efficient strategy for reliability-based multidisciplinary design optimization of twin-web disk with non-probabilistic model 1.

Introduction. As the turbine inlet temperature is continuously increasing, twin-web turbine disk (TWD) with a hollow... 2. Non-

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probabilistic uncertain
methods. Evidence ...

Optimization
**An efficient strategy
for reliability-based**

...

Abstract. Reliability-
Based Optimization
(RBO) for engineering
design deals mainly
with two design
attributes, namely the
merit, for example
cost, and the reliability
of the design. In this
work the class of
design problems which

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are considered, are designs characterized by a minimum merit function and that satisfy certain reliability constraints. The reliability constraints are typically constraints on the probabilities of failure due to component failure events or a system failure event.

Reliability-Based Optimization for

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Multidisciplinary ...

Multi-disciplinary design optimization (MDO) is a field of engineering that uses optimization methods to solve design problems incorporating a number of disciplines. It is also known as multidisciplinary system design optimization (MSDO). MDO allows designers to incorporate all relevant disciplines

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simultaneously. The optimum of the simultaneous problem is superior to the design found by optimizing each discipline sequentially, since it can exploit the interactions between the disciplines. However

Multidisciplinary design optimization - Wikipedia

The reliability-based multidisciplinary design and optimization is of

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significance for increasing the quality and economic efficiency in many industrial designs. However, the intensive coupled ...

A sequential reliability assessment and optimization ...

A new reliability-based multidisciplinary design optimization (RBMDO) framework is proposed by combining the

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single-loop-based
reliability analysis
(SLBRA) method with
multidisciplinary
feasible ...

**(PDF) An Efficient
Method for
Reliability-based ...**

Complex mechanical system is usually composed of several subsystems, which are often coupled with each other. Reliability-based multidisciplinary design optimization

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(RBMDO) is an efficient method to design such complex system under uncertainties.

However, the present RBMDO methods ignored the correlations between uncertainties.

Reliability-Based Multidisciplinary Design Optimization

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The reliability-based multidisciplinary design and optimization is of

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significance for increasing the quality and economic efficiency in many industrial designs. However, the intensive coupled multidisciplinary analysis and reliability assessment make it impractical for real engineering problems due to the unacceptable computational cost. In this paper, we studied different active

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learning ...
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**A sequential
reliability
assessment and
optimization ...**

Compared with the conventional single web disk, the twin-web disk has been designed as the future trend of the high-pressure turbine disk by the US Integrated High Performance Turbine Engine Techno...

Reliability-based

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multidisciplinary design
and optimization for
twin-web disk using
adaptive Kriging
surrogate model -
Mengchuang Zhang,
Wenxuan Gou, Qin Yao,
2016.

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multidisciplinary
design and ...**

Summary This chapter
contains sections
titled: Introduction
Numerical methods in
RBDO Semi-analytic

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methods in RBDO

Academic applications

An industrial
application: RBDO of
an intake port An
indust...

Reliability-based Design Optimization (RBDO ...

Then with
multidisciplinary design
optimization (MDO),
optimal system designs
can be automatically
identified with desired
system reliability and

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reduced cost. If successful, the results of this research will impact broad areas of engineering design and will be applicable to wide engineering applications, ranging from large defense and civil systems to small integrated circuit systems.

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Reliability-Based ...**

Our proposed

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Reliability-Based
Multidisciplinary
Design Analysis and
Optimization (RB-
MDAO) will apply to the
overall cyber-physical
system, not just to
individual components
or within particular
disciplines.

Reliability-Based Multidisciplinary Design Analysis and

...

At the design level,
mathematical

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formulations of reliability-based design model that can be solved efficiently are sought by means of the inverse reliability strategy. With the ability of facilitating distributed computations, the overall reliability - based multidisciplinary systems design is performed through a sequential single -loop procedure

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