

# Generator rotor blade deformation correction



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### Guidelines for the Uprate Design of Turbine-Generator Rotor

The focus of this guidelines document is the rotor support structure for uprated turbine-generator (T/G) systems.

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### Generator Rotor High-Speed Balancing , GE Vernova

Improve generator efficiency and reduce vibration with expert high-speed rotor balancing. Discover the process, benefits, and why precision matters.

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### GER4212 GE Generator Rotor Design Ops Issues Refurbishment Options

This document discusses generator rotor design, operational issues, and refurbishment options. It describes the function of generator rotors in producing an electromagnetic field for electricity generation.

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### Rotor Balancing Tutorial

Greater emphasis is presented in this tutorial on field balancing, which applies to balance correction in situ on rotating machinery and similarly applies to methods and techniques used when conducting high speed shop ...

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### Investigation on rub-impact response characteristics of gas ...

Using Coulomb's friction law, a blade-casing rub-impact dynamic model is developed. The accuracy of the model is verified through modal testing.

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### Analysis of Unbalance Response and Vibration Reduction of an ...

To ensure the vibration safety of rotor support systems in modern aeroengines, this study develops a dynamic model of the aeroengine gas generator rotor system and analyzes its complex ...

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### Improvements for Generator Rotor Unbalance

Beginning with a brief review of current balance standards, for both rigid and flexible rotors, and ending with specific case histories and actual solutions, this



paper should be useful to plant engineers ...

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In addition to the verification of critical deformation, i.e. the tower clearance between blade tip and tower surface in particular, verification must be provided that the resonance frequencies of the rotor blade are not excited ...

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## HEAT DISSIPATION

Cold aisle containment,  
making optimal refrigeration effect;



## Stereo digital image correlation for rotor blade deformation

A post-processing algorithm was implemented to correct for systematic uncertainties due to rotor center misalignment, model tilt, and vibration effects, ensuring highly accurate deformation measurements ...

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