# De-weighting of generator rotor with fan blades

## Overview

According to the characteristics of inertia asymmetric rotor load with multiple loads, this paper changes the dynamic characteristics of rotor system by reducing the support stiffness, and increases the support damping to improve the energy dissipation, so as to reduce the. According to the characteristics of inertia asymmetric rotor load with multiple loads, this paper changes the dynamic characteristics of rotor system by reducing the support stiffness, and increases the support damping to improve the energy dissipation, so as to reduce the. The potential failure of generator rotor fan vanes and blower blades has been identified as an area for detailed risk assessment in the electric power generation industry. Liberation of fan component has caused catastrophic damage to both the rotor and stator components on a number of units. Critical gas turbine rotating component, such as turbine blades, compressor disks, spacers and cooling fan blades are subjected to cyclic stresses during engine start-up, operation and shut-down. They consist of. Unbalance of generator rotors is a major contributor to generator downtime, costing power producers hundreds of thousands of dollars in lost revenue each year. Proper attention to design detail, manufacturing tolerances and procedures, during initial manufacture or subsequent rewinds, can minimize. explosion and huge financial loss. I haven"t checked to see if it"s removable. That fan moves at the same speed as the motor.

## De-weighting of generator rotor with fan blades

### 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 ...

### GER4212 GE Generator Rotor Design Ops Issues Refubishment 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.

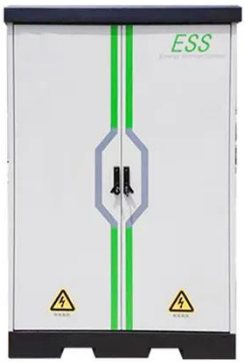
### Analysis and Safety Design of Aero-Engine Rotor Dynamic

In this paper, when FBO occurs, the load characteristics of the rotor system are described with the low-pressure rotor structure of a high bypass ratio turbofan engine.

### Failure analysis of gas turbine

## generator cooling fan blades

Abstract and Figures Since the optimum operation of a generator is highly affected by increasing in temperature, a cooling system is used to control the temperature.




## Rotor Inspection , part of Handbook of Large Turbo-Generator ...

In large machines, balance weights, bolts, nuts, and any other rotor attachments are subjected to intensive centrifugal forces. The chapter provides discussion about the condition of the windings, ...

## Failure analysis of generator rotor fan blades

It this paper, a mechanical analysis was performed with the metallurgical examinations for competent analysis of blade failure. The mechanical analysis capable of predicating stress and ...

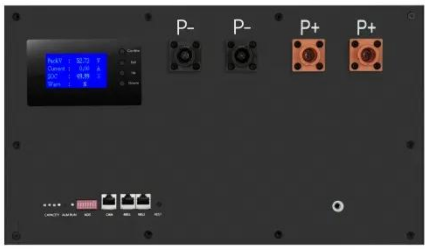
## Generator rotor cooling fan blades

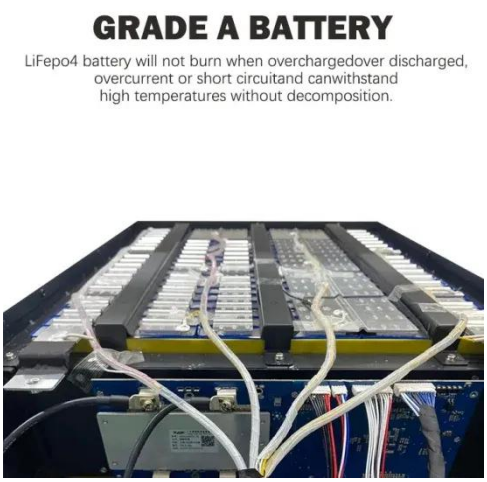
In gas turbine power plants, a fan is used as a cooling system to dissipate generated heat in coils (copper conductors) and generator electric

circuits at the end sides of

## Rotor Windings in Hydro and Reciprocating Engine Generators

Short Summary: This entry discusses rotor windings, including damper windings and fan blades in hydro units. It covers their importance, common issues, and their impact on generator performance.




## Understanding Steam and Gas Turbine - Generator Fan Failures

The potential failure of generator rotor fan vanes and blower blades has been identified as an area for detailed risk assessment in the electric power generation industry.

## Fracture Analysis of Generator Fan Blades

Visual inspections were taken on the generator parts especially on the fan blades and the effect of accident on

them was studied. Three kinds of blades were found in the turbine casing after the ...

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