

Stress Analysis For Bus Body Structure

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Stress Analysis For Bus Body

(PDF) STATIC, DYNAMIC AND IMPACT STRESS ANALYSIS OF A BUS BODY STRUCTURE USING FINITE ELEMENT ANALYSIS | TJPRC Publication - Academia.edu The increased speed and weight of modern Bus puts the components of a Bus body in a highly dynamic load situation. Bus body is the core component in a vehicle.

STATIC, DYNAMIC AND IMPACT STRESS ANALYSIS OF A BUS BODY ...

This paper presents the effective method for dynamic stress analysis of structural components of bus systems or general mechanical systems. The proposed method is the hybrid superposition method that combined finite element static and eigenvalue analysis with flexible multibody dynamic analysis.

Dynamic Stress Analysis of a Bus Systems

Here total reduction of 43.5% in overall stress is achieved. It means the structure which practically fails at 63.244 MPa stress, would not fail at 35.712 MPa stress. CONCLUSION In this project, a bus body structure is modeled in 3D modeling software Catia. The original body is analyzed to find out critical region of failure.

STRUCTURAL ANALYSIS OF PASSENGER BUS BODY USING FEA BY ...

Bus-driving-characterized by high demands, low control and low support – can be regarded as a classic example of high-strain occupation, with high risks of physical and mental occupational ill-health, leading to absenteeism and to decreased productivity of employees and enterprises.

Review of bus drivers' occupational stress and stress ...

Stressors for bus drivers include poor cabin ergonomics, rotating shift patterns and inflexible running times. Over the last few decades, the heightening of other work stressors such as traffic, and violence from passengers have compounded the situation for bus drivers.

A Study on Occupational Stress Among Bus Drivers

During Design and Analysis of a Bus Body Side Frame modeling the structure, weight reduction is the prime objective. Redundant structures are identified and avoided. These helps in reducing the weight and offers better load path continuity. It also helps to reduce the volume of material used in making the bus body.

DESIGN AND ANALYSIS OF A BUS BODY SIDE FRAME

The objective of this work is to analyze and optimize a bus frame structure using Finite Element Method in dynamic conditions. The bus body geometry was obtained directly from the three-dimensional Computer-Aided Design files. The optimization was conducted to determine the minimum weight of the bus frame structure without violating the specified natural frequency constraints.

[PDF] Optimization of Bus Body Frame Structure for Weight ...

By default, a mesh and some model properties are applied to each body in the part when the analysis is created. For now, we will work with the default mesh and properties.

CATIA Stress Analysis - cadcamlab.org

3 Concepts of Stress Analysis 3.1 Introduction Here the concepts of stress analysis will be stated in a finite element context. That means that the primary unknown will be the (generalized) displacements. All other items of interest will mainly depend on the

3 Concepts of Stress Analysis - Rice University

Body weights of stressed mice then remained significantly lower than the control body weights, even though food intake slowly recovered to 90% of the control intake at the end of the experiment. cDNA microarray analysis revealed that chronic restraint stress affects the expression of hypothalamic genes possibly related to body weight control.

Effects of Chronic Restraint Stress on Body Weight, Food ...

The current work contains the load cases & boundary conditions for the stress analysis of chassis using finite element analysis over ANSYS. Finite element model of the vehicle chassis is made. Shell elements have been used for the longitudinal members & cross members of the chassis. The advantage of using shell element is that the stress details can

Vehicle Chassis Analysis: Load Cases & Boundary Conditions ...

There is distribution in thermal stress, and it also shows that large stress is put on the connection joint between the bus bar and the copper thin sheet, as well as the top of the bending part. Caution needs to be taken because temperature increase will not only cause burn out, but it may also damage the wire due to local thermal stress.

198 - Bus Bar Thermal Stress Analysis | Simulation ...

Stress can lead to changes in many different parts of the body. Stress can lead to a faster heartbeat, muscle tension, and gastrointestinal issues.

Stress | Psychology Today

Stress-strain analysis is an engineering discipline that uses many methods to determine the stresses and strains in materials and structures subjected to forces. In continuum mechanics, stress is a physical quantity that expresses the internal forces that neighboring particles of a continuous material exert on each other, while strain is the measure of the deformation of the material. In simple terms we can define stress as the force of resistance per unit per unit area, offered by a body ...

Stress-strain analysis - Wikipedia

The simplifications for connections between beams of body frame, although is not enough to affect the stress distribution of the whole bus body frame, is still very important for local stress distribution, especially for stress concentration regions.

Development of Model Simplifications of Bus Body Connections

Therefore, use of lightweight materials, such as aluminum is essential to reduce the total weight of bus. In this study, the focus is on the bus frame as it represents 30% of the total weight and it is the most stressed part of the bus. Its life duration is more important compared to that of all other elements.

Static and Vibration Analysis of an Aluminium and Steel ...

Fatigue Strength of an Urban Type Midi Bus Vehicle Chassis by Using Fem Analysis and Accelerated Fatigue Life Test 2009-01-1453 Theoretical and

experimental techniques in road data are needed for design of vehicle body and chassis according to nowadays technology concept.

Fatigue Strength of an Urban Type Midi Bus Vehicle Chassis ...

element analysis of the strain-stress state of a bus body pillar is presented for simple and compound bending. Modeling was made by using the opportunities of ANSYS packaged programs. Keywords: bus, body, body pillar, passive safety, strength, geometrical nonlinearity, physical nonlinearity, body deflection, crushing

MODELING AND ESTIMATE OF THE STRAIN-STRESS STATE OF A BUS ...

Stress analysis. Stress analysis is a branch of applied physics that covers the determination of the internal distribution of internal forces in solid objects. It is an essential tool in engineering for the study and design of structures such as tunnels, dams, mechanical parts, and structural frames, under prescribed or expected loads.

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