

## STATIC, DYNAMIC AND IMPACT STRESS ANALYSIS OF A BUS BODY STRUCTURE USING FINITE ELEMENT ANALYSIS

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### ABSTRACT

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. A classic finite element model of the bus body is established that focuses on analyzing the behavior of a bus body during static and dynamic load conditions. A finite element model of a pre-stressed bus body is established for static load conditions. The purpose of this research work is to analyze the structural response of the bus body for static, dynamic, and impact loading conditions. In order to conduct this analysis, Finite element Method is applied and ANSYS (FEM Tool) is used. The finite element model is constructed from the structural data and drawings provided by DELHI TRANSPORT CORPORATION (DTC). The research work determines the structural response under the above said loading by evaluating the maximum deflection and stress pattern. The results are presented in the form of graphs and data along with the three-dimensional model of the bus body.

**KEYWORDS:** Static Load, Dynamic Load, Bus Body Structure, Pre-Stressed & Finite Element Model

Received: Dec 02, 2017; Accepted: Dec 22, 2017; Published: Jan 19, 2018; Paper Id.: IJMPERDFEB201880

### 1. INTRODUCTION

One of the technical innovations of the modern world and of course always allowing room for progress, buses have taken the centre stage in transporting people through long distances with maximum safety, comfort, minimum cost, reduced timing, and through proper adherence of standard rules. For many years, buses have been widely used in India as a successful mean for public transportation within the city as well as from city to city. The buses form the major component of surface transportation in India as buses connect most of the villages. When these buses had been used first, since then not much attention has been paid for the improvement of the body of the buses. These bus body designs have, however, been giving reasonable service, although their efficiency had hardly been evaluated or tested scientifically. In the absence of such evaluation tests, the vehicle designs cannot be termed as optimal designs from operational and maintenance costs point of view as also from structural performance; passenger comfort and other operational requirement point of view. Everyone tried to improve mechanical components such as engine, transmission systems, clutches, gear box, etc. But, bus body structure could not win the hearts of designers. Now, designers are also becoming serious for the design of bus bodies. The damages and human injuries during accidents had been sufficient to draw the attention of designers towards it.

Considering the above deficiencies, scientific evaluation of some of the existing bus body designs is

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**of Lewis Research Center Technical Publications Announced in 1991**, 1992      **Collapse Analysis of Bus Body Structures Using Interactive Computer Graphics** F. F. Monasa, W. McGuire, 1986      **Evaluation of Structural Strength Capacity of Bus Body Structures** Frank Monasa, 1981      **Static Load Test Code for School Bus Body Structure** W. C. Rumph, 1965      *Experimental Stress Analysis for Materials and Structures* Alessandro Freddi, Giorgio Olmi, Luca Cristofolini, 2015-03-26 This book summarizes the main methods of experimental stress analysis and examines their application to various states of stress of major technical interest highlighting aspects not always covered in the classic literature It is explained how experimental stress analysis assists in the verification and completion of analytical and numerical models the development of phenomenological theories the measurement and control of system parameters under operating conditions and identification of causes of failure or malfunction Cases addressed include measurement of the state of stress in models measurement of actual loads on structures verification of stress states in circumstances of complex numerical modeling assessment of stress related material damage and reliability analysis of artifacts e g prostheses that interact with biological systems The book will serve graduate students and professionals as a valuable tool for finding solutions when analytical solutions do not exist      **Development of Bus Body Structure** Hong Chung Ling, 2005  
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### **Table of Contents Stress Analysis For Bus Body Structure Pdf**

1. Understanding the eBook Stress Analysis For Bus Body Structure Pdf
  - The Rise of Digital Reading Stress Analysis For Bus Body Structure Pdf
  - Advantages of eBooks Over Traditional Books
2. Identifying Stress Analysis For Bus Body Structure Pdf
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Stress Analysis For Bus Body Structure Pdf
  - User-Friendly Interface
4. Exploring eBook Recommendations from Stress Analysis For Bus Body Structure Pdf
  - Personalized Recommendations
  - Stress Analysis For Bus Body Structure Pdf User Reviews and Ratings
  - Stress Analysis For Bus Body Structure Pdf and Bestseller Lists

5. Accessing Stress Analysis For Bus Body Structure Pdf Free and Paid eBooks
  - Stress Analysis For Bus Body Structure Pdf Public Domain eBooks
  - Stress Analysis For Bus Body Structure Pdf eBook Subscription Services
  - Stress Analysis For Bus Body Structure Pdf Budget-Friendly Options
6. Navigating Stress Analysis For Bus Body Structure Pdf eBook Formats
  - ePub, PDF, MOBI, and More
  - Stress Analysis For Bus Body Structure Pdf Compatibility with Devices
  - Stress Analysis For Bus Body Structure Pdf Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Stress Analysis For Bus Body Structure Pdf
  - Highlighting and Note-Taking Stress Analysis For Bus Body Structure Pdf
  - Interactive Elements Stress Analysis For Bus Body Structure Pdf
8. Staying Engaged with Stress Analysis For Bus Body Structure Pdf
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Stress Analysis For Bus Body Structure Pdf
9. Balancing eBooks and Physical Books Stress Analysis For Bus Body Structure Pdf
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Stress Analysis For Bus Body Structure Pdf
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Stress Analysis For Bus Body Structure Pdf
  - Setting Reading Goals Stress Analysis For Bus Body Structure Pdf
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Stress Analysis For Bus Body Structure Pdf
  - Fact-Checking eBook Content of Stress Analysis For Bus Body Structure Pdf
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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