

APPLYING THE STRAIN ENERGY DENSITY CRITERION TO FATIGUE AND FRACTURE PROBLEMS IN THE TRANSPORTATION INDUSTRY

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ABSTRACT

Today fracture mechanics is an independent discipline that deals with structures containing detectable or visible sharp cracks. The basic concepts of fracture mechanics are well established due to the contributions of researchers such as G. C. Sih. This paper focuses on one of his many contributions: specifically, the strain energy density criterion for fatigue and fracture problems involving mixed mode loading. Moreover, this paper reviews examples of original research in the transportation industry in which the strain energy density criterion was applied. In particular, these examples come from the aircraft and railroad industries. Both industries now use fatigue and fracture control programs, developed from damage tolerance or fracture mechanics principles, to minimize the risks associated with structural failures.

Key Words:

1. INTRODUCTION

Historically, the problems associated with fatigue and fracture have been brought to the forefront of research after the occurrence of a structural failure. For example, brittle fractures were observed in about twenty-five percent of the fleet of welded Liberty ships constructed in the United States in the 1940s. Investigations revealed that the maximum bending moments at the time of failure were one-half of the bending moments allowed for in the design. Subsequently much of the early work on fracture mechanics in the United States was conducted at the Naval Research Laboratories. In 1954, the Comet I aircraft, the first jet-propelled passenger airplane, disintegrated in the air at approximately 9,140 meters (30,000 feet) and crashed into the Mediterranean Sea near Elba. Investigation of this crash concluded that the accident was caused by fatigue failure of the pressurized cabin. In 1988, an explosive decompression occurred in a commercial transport aircraft when approximately 5.5 meters (18 feet) of the upper crown

skin and structure separated from the fuselage while in flight at about 7,320 meters (24,000 feet) near Maui, Hawaii. The failure was caused by the formation, growth, and linkup of multiple fatigue cracks. The phenomenon of multiple site fatigue cracking in aging airplanes is now referred to as "widespread fatigue damage."

Today the principles of fracture mechanics are applied during the design process to control, mitigate, or prevent structural failures due to fatigue and fracture. Moreover, the basic concepts of fracture mechanics are now well known and established due to the contributions of researchers such as G. C. Sih. One among his many contributions is the development of the strain energy density criterion for fatigue and fracture problems involving mixed mode loading (Sih, 1974).

This paper reviews four examples in the transportation industry in which the strain energy density criterion was applied to examine the fatigue and fracture process. These examples originate from previous research studies. Two examples are presented from the aircraft industry, and are specifically related to the phenomenon of widespread fatigue damage. The other two examples come from the railroad industry, which now is evolving its fatigue and fracture control programs to emulate the damage

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Table of Contents Fracture Problems In The Transportation Industry

1. Understanding the eBook Fracture Problems In The Transportation Industry
 - The Rise of Digital Reading Fracture Problems In The Transportation Industry
 - Advantages of eBooks Over Traditional Books
2. Identifying Fracture Problems In The Transportation Industry
 - 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 Fracture Problems In The Transportation Industry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fracture Problems In The Transportation Industry
 - Personalized Recommendations
 - Fracture Problems In The Transportation Industry User Reviews and Ratings
 - Fracture Problems In The Transportation Industry and Bestseller Lists
5. Accessing Fracture Problems In The Transportation Industry Free and Paid eBooks
 - Fracture Problems In The Transportation Industry Public Domain eBooks
 - Fracture Problems In The Transportation Industry eBook Subscription Services
 - Fracture Problems In The Transportation Industry Budget-Friendly Options

6. Navigating Fracture Problems In The Transportation Industry eBook Formats
 - ePub, PDF, MOBI, and More
 - Fracture Problems In The Transportation Industry Compatibility with Devices
 - Fracture Problems In The Transportation Industry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fracture Problems In The Transportation Industry
 - Highlighting and Note-Taking Fracture Problems In The Transportation Industry
 - Interactive Elements Fracture Problems In The Transportation Industry
8. Staying Engaged with Fracture Problems In The Transportation Industry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fracture Problems In The Transportation Industry
9. Balancing eBooks and Physical Books Fracture Problems In The Transportation Industry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fracture Problems In The Transportation Industry
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fracture Problems In The Transportation Industry
 - Setting Reading Goals Fracture Problems In The Transportation Industry
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fracture Problems In The Transportation Industry
 - Fact-Checking eBook Content of Fracture Problems In The Transportation Industry
 - 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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