

ME 312 LABORATORY EXPERIMENT 04

IMPACT TESTING

I. INTRODUCTION:

A material may be very hard (and therefore very strong) and yet be unsuitable for applications in which it is subjected to sudden loads or stresses. Materials behave quite differently when they are loaded suddenly than when they are loaded more slowly as in tensile testing. Because of this fact, impact test is considered to be one of the basic mechanical tests (especially for ferrous metals).

The transition between the ductile and brittle rapid propagation of cracks without any previous plastic deformation at a stress level below the yield stress of the material, shows that their ductile behavior usually vanishes under certain circumstances, known as a brittle fracture. The stress needed to cause crack starts as the temperature falls. At very low temperatures, fracture occurs before yielding.

Impact tests are used not only to measure the energy absorbing capacity of the material subjected to sudden loading, but also to determine the transition temperature from ductile to brittle behavior.

1. THEORY:

Pendulum Impact Test

In this test the specimen is positioned across the lowest point in the path of a weight suspended at the end of a pendulum as shown in Figure 1. The weight, having been raised to a specific height h_1 , and then released, swings against the specimen and breaks it. The weight continues its swing to the other side of the specimen to a height h_2 . Clearly the difference between the two heights multiplied by the weight of the weight corresponds to the amount of energy that is absorbed in fracture.

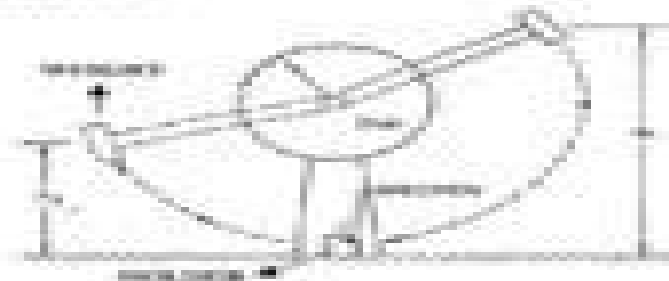


Figure 1. Schematic of a conventional Pendulum Impact Tester

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Table of Contents Laboratory Manual Material Science Me 212 E

1. Understanding the eBook Laboratory Manual Material Science Me 212 E
 - The Rise of Digital Reading Laboratory Manual Material Science Me 212 E
 - Advantages of eBooks Over Traditional Books
2. Identifying Laboratory Manual Material Science Me 212 E
 - 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 Laboratory Manual Material Science Me 212 E
 - User-Friendly Interface
4. Exploring eBook Recommendations from Laboratory Manual Material Science Me 212 E
 - Personalized Recommendations
 - Laboratory Manual Material Science Me 212 E User Reviews and Ratings
 - Laboratory Manual Material Science Me 212 E and Bestseller Lists
5. Accessing Laboratory Manual Material Science Me 212 E Free and Paid eBooks

- Laboratory Manual Material Science Me 212 E Public Domain eBooks
 - Laboratory Manual Material Science Me 212 E eBook Subscription Services
 - Laboratory Manual Material Science Me 212 E Budget-Friendly Options
6. Navigating Laboratory Manual Material Science Me 212 E eBook Formats
- ePub, PDF, MOBI, and More
 - Laboratory Manual Material Science Me 212 E Compatibility with Devices
 - Laboratory Manual Material Science Me 212 E Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Laboratory Manual Material Science Me 212 E
 - Highlighting and Note-Taking Laboratory Manual Material Science Me 212 E
 - Interactive Elements Laboratory Manual Material Science Me 212 E
8. Staying Engaged with Laboratory Manual Material Science Me 212 E
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Laboratory Manual Material Science Me 212 E
9. Balancing eBooks and Physical Books Laboratory Manual Material Science Me 212 E
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Laboratory Manual Material Science Me 212 E
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Laboratory Manual Material Science Me 212 E
- Setting Reading Goals Laboratory Manual Material Science Me 212 E
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Laboratory Manual Material Science Me 212 E
- Fact-Checking eBook Content of Laboratory Manual Material Science Me 212 E
 - 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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