

EXPERIMENT 2

NOTCHED BAR IMPACT TESTING OF MATERIALS

Background

Materials sometimes display brittleness which precludes their use in a given design. Brittleness is characterized by fracturing with low energy under impact. The fracture energy is proportional to the area under the tensile stress-strain curve and is called the **toughness**. Tough steel is generally **ductile** and requires 100 ft-lbs of energy to cause failure. **Brittle** steel does not deform very much during failure and requires less than 15 ft-lbs energy to cause failure.

Characterizing the toughness of a material is done in several ways. The most common method is the notched-bar impact test for which two types of specimens prevail, **Charpy** and **Izod**. By subjecting a specimen to an impact load, it will fail if the load exceeds the breaking strength of the material. By using a swinging pendulum to impart the load, the energy required to fracture the specimen can be calculated by observing the height the pendulum swings after fracture, as shown in **Figure 2-1**.

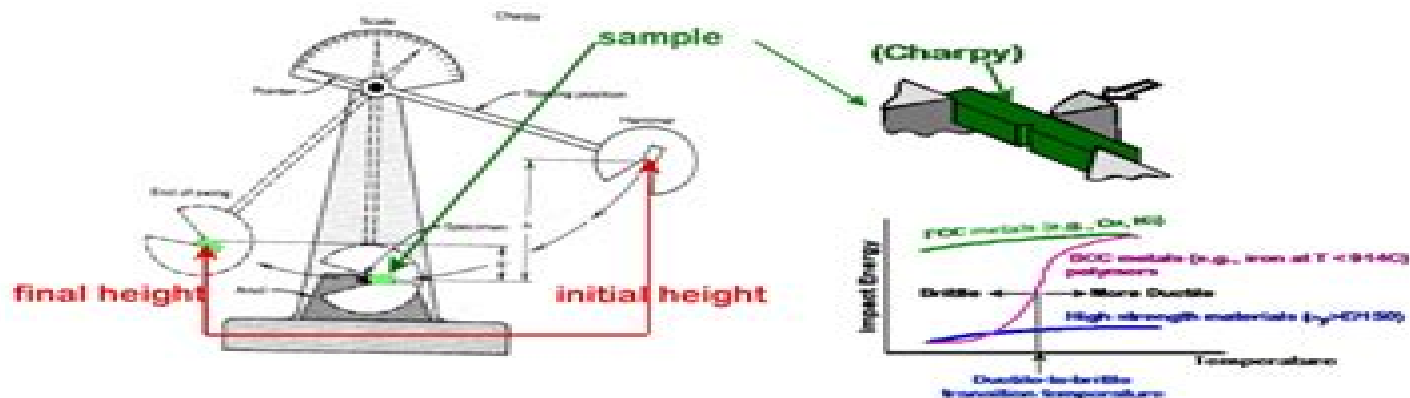


Figure 2-1: Charpy impact tester, sample positioned in anvil and general testing results.

This test has been used almost exclusively with **body-centered-cubic** (bcc) crystalline materials. These materials show a **transition** from ductile to brittle behavior with temperature (**Figure 2-2**). This means that at low temperature the fracture energy is low.

The mechanical behavior of materials often exhibits variations even for seemingly identical specimens and materials. The steel specimens for this experiment are manufactured from a single ingot of steel and are machined to a single drawing. Despite these precautions, the results from identical tests will not always be identical.

Variations in properties are often evaluated by means of statistics to establish the average value and the possible variance in the results. The amount of shear in the surface failure of

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DP Hallahan



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Plane Strain Crack Toughness Testing of High Strength Metallic Materials William F. Brown, John E. Srawley, 1966

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Table of Contents Laboratory Manual Of Impact Testing Of Material

1. Understanding the eBook Laboratory Manual Of Impact Testing Of Material
 - The Rise of Digital Reading Laboratory Manual Of Impact Testing Of Material
 - Advantages of eBooks Over Traditional Books
2. Identifying Laboratory Manual Of Impact Testing Of Material
 - 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 Of Impact Testing Of Material
 - User-Friendly Interface
4. Exploring eBook Recommendations from Laboratory Manual Of Impact Testing Of Material

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

- Fact-Checking eBook Content of Laboratory Manual Of Impact Testing Of Material
- 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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