

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**.

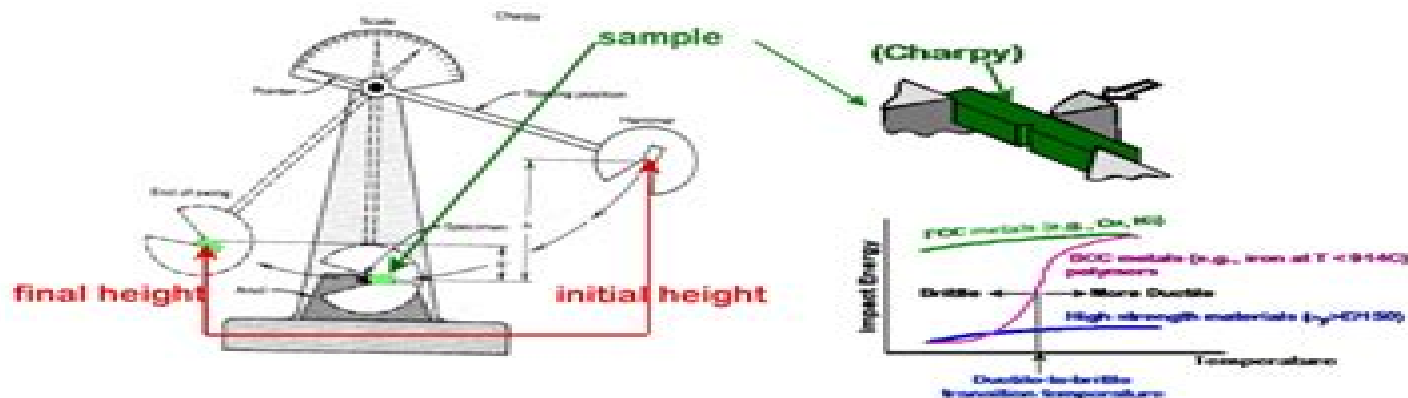


Figure 2-1: Charpy impact tester, sample positioned in anvil and general testing results.

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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Laboratory Manual of Testing Materials William Kendrick Hatt, Herbert Henry Scofield, 1913 **Laboratory Manual for the Use of Students in Testing Materials of Construction** Leslie Abram Waterbury, 1912 Laboratory Manual on Testing of Engineering Materials Hamant. Sood, 2003 Primarily Written For The Students Of Civil Engineering And Practising Engineers Involved In The Testing Of Building Materials The Manual Describes In Straight Forward And Systematic Manner The Testing Of Engineering Materials Each Test Given In The Manual Outlines The Objectives Theory Apparatus Requirements Procedures Precautions Questions For Discussion And Observations And Calculations For All The Tests Specified The Procedure Is Based On The Relevant Indian Standard Code Of Practice Which Is The Usual Accepted Method Of Performing The Tests The Manual Can Be Used By Students And Field Engineers For Keeping The Record Of Tests Performed In The Laboratory Since Each Test Requires A Different Reference Of The Indian Standard Codes It May Not Be Practically Feasible In The Field Conditions And Therefore This Manual Comes Quite Handy For These Situations It Will Be Invaluable And Indispensable Manual For Imparting Effective Instructions To Diploma And Under Graduate Level Students As Also To Field Engineers Proceedings - American Society for Testing and Materials American Society for Testing and Materials, 1903 Vols 61 66 include technical papers Proceedings of the Annual Meeting - American Society for Testing Materials American Society for Testing Materials, 1922 **Handbook of Plastics Testing and Failure Analysis** Vishu Shah, 2020-11-23 Written in easy to read and use format this book provides a strong training resource and reference for product designers using plastics in their products helping them identify quantify and confirm whether problems are related to product design or process Updates coverage of data analysis techniques and examples and expands coverage of failure analysis key because of increased litigation related to product liability Overviews plastic testing methods and the framework to investigate causes of plastic part failure Provides a strong training resource and reference for product designers using plastics in their products Features a video tour of a plastics testing labroatory on a companion website and has a separate manual of problems and solutions that are appropriate for college professors using the book as a class textbook **First Chiao-tung University Library Catalogue [Foreign Books Department]** Shanghai jiao tong da xue. T'u shu kuan, 1928

A Laboratory Manual of Metals and Alloys S. M. Ashraf, 2008-12-08 This compendium of twenty laboratory experiments on metals and alloys attempts to provide to students of Science and Engineering an insight about the relationship of the physical specially mechanical properties of metals with grain structures microstructures In almost all the experiments therefore the microstructural investigation is provided Experiments have also been included on the determination of important mechanical and thermal properties and on the aqueous and atmospheric corrosion of metals Theoretical background of each experiment has been dealt with in good detail in order to enable the student to understand the underlying principles and to appreciate the significance of the experiments Information which could not be accommodated

given in the text of the experiments has been provided in the form of appendices These include reflection microscopy experimental determination of transition points through cooling curves to get data for plotting phase diagrams and quenching media for tempering of alloys In view of the importance of microstructures for some metals and alloys have also been given *Proceedings of the Annual Meeting American Society for Testing Materials, 1922* *Springer Handbook of Metrology and Testing* Horst Czichos, Tetsuya Saito, Leslie E. Smith, 2011-07-22 This Springer Handbook of Metrology and Testing presents the principles of Metrology the science of measurement and the methods and techniques of Testing determining the characteristics of a given product as they apply to chemical and microstructural analysis and to the measurement and testing of materials properties and performance including modelling and simulation The principal motivation for this Handbook stems from the increasing demands of technology for measurement results that can be used globally Measurements within a local laboratory or manufacturing facility must be able to be reproduced accurately anywhere in the world The book integrates knowledge from basic sciences and engineering disciplines compiled by experts from internationally known metrology and testing institutions and academe as well as from industry and conformity assessment and accreditation bodies The Commission of the European Union has expressed this as there is no science without measurements no quality without testing and no global markets without standards *Non Destructive Concrete Testing Lab Manual* Dhruv Saxena, Puneet Gaur, Akash Gupta, Dr Tarun Gehlot, 2023-03-21 Non Destructive Testing of Concrete Structures Laboratory Manual is a comprehensive guide designed to assist students researchers and professionals in understanding and conduct non destructive testing NDT on concrete structures This practical manual provides step by step instructions and detailed explanations of various NDT techniques commonly used for evaluating the integrity and quality of concrete It covers different methods including ultrasonic testing infrared thermography rebound hammer testing impact echo testing and ground penetrating radar The book emphasizes a hands on approach with each technique accompanied by clear diagrams and photographs Readers will learn how to prepare concrete samples operate the testing equipment interpret test results and draw conclusions about the structural health of concrete elements Furthermore the laboratory manual highlights essential considerations such as safety precautions limitations of each method and factors that may affect test results It also discusses the significance of NDT in assessing durability detecting defects and guiding repair and maintenance strategies for concrete structures Non Destructive Testing on Concrete Structures Laboratory Manual serves as an invaluable resource for civil engineering students researchers in structural assessment and professionals working in the construction and infrastructure industries It equips readers with the necessary knowledge and practical skills to effectively utilize NDT techniques and make informed decisions regarding the condition of concrete structures **Practical Guide to Polyvinyl Chloride** Stuart Patrick, 2005 Polyvinyl chloride PVC has been around since the late part of the 19th century although it was not produced commercially until the 1920s it is the second largest consumed plastic material after

polyethylene PVC products can be rigid or flexible opaque or transparent coloured and insulating or conducting There is not just one PVC but a whole family of products tailor made to suit the needs of each application PVC is extremely cost effective in comparison to other plastics with a high degree of versatility in end use and processing possibilities as the reader will note from this book It is durable easily maintained and can be produced in a large range of colours As a result PVC finds use in an extensive range of applications in virtually all areas of human activity including medical equipment construction applications such as flexible roof membranes pipes and window profiles toys automotive parts and electrical cabling The PVC industry has also started to tackle some of its end of life issues This practical guide provides comprehensive background on the resins and additives their properties and processing characteristics as well as discussion of product design and development issues There have been and still are issues and perceptions over environmental and health acceptance covering vinyl chloride monomer dioxins phthalate plasticisers and lead and cadmium based heat stabilisers and these are discussed in depth in this book This book will be of interest to raw materials suppliers and processors or end users of PVC as well as anyone with a general interest in this versatile material resins and additives properties and testing design issues processing including post processing and assembly property enhancement sustainable development

Practical Testing and Evaluation of Plastics Achim Frick, Claudia Stern, Vibunanthan Muralidharan, 2019-03-18 Engineering with polymers is a growing technical field which requires special knowledge Filling a need this ready reference brings together the hard to get and recently acquired knowledge usually only found scattered in the original literature At the beginning the reference introduces plastics as a class of technical materials gives an overview of their properties presents plastics processing and its possible influence on the achievable quality of plastic parts Afterwards plastics testing is presented as a separate practical scientific field of work The possibilities and fields of application of plastics testing will be discussed This is followed by a comprehensive treatment of the individual relevant test areas for the characterization and qualification of plastics and plastic molded parts made from them with descriptions of the corresponding practical test methods A comprehensive index provides easy access to relevant information for successful engineering with plastics and suitable methods for material characterization and for quality assurance and damage analysis of parts Written by experienced academics and industrial researchers and developers who know the problems of plastics engineers in their daily work and the solutions inside out this book offers first hand practical knowledge and intensive discussion The book is aimed at industry scientists and students involved in plastics and plastic engineering and aims to help them gain the necessary understanding of polymer materials and knowledge of practical testing and evaluation of plastics

Laboratory Guide for Conducting Soil Tests and Plant Analysis Jr., J. Benton Jones, 2001-06-28 With the help of this guide you can use obtained test results to evaluate the fertility status of soils and the nutrient element status of plants for crop production purposes It serves as an instructional manual on the techniques used to perform chemical and physical characteristic tests on soils *Laboratory Guide for Conducting Soil Tests and Pl* **Nuclear**

Safety, 1972 *Bulletin American Society for Testing Materials*, 1922 Vol 12 includes under the same cover the society's year book for 1912 An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 **Free Night School of Engineering** Cooper Union for the Advancement of Science and Art. School of Engineering, 1928 *Asphalts and Allied Substances* Herbert Abraham, 1929 **A Practical Guide to Plastics Sustainability** Michel Biron, 2020-04-18 A Practical Guide to Plastics Sustainability Concept Solutions and Implementation is a groundbreaking reference work offering a broad detailed and highly practical vision of the complex concept of sustainability in plastics The book's aim is to present a range of potential pathways towards more sustainable plastics parts and products enabling the reader to further integrate the idea of sustainability into their design process It begins by introducing the context and concept of sustainability discussing perceptions drivers of change key factors and environmental issues before presenting a detailed outline of the current situation with types of plastics processing and opportunities for improved sustainability Subsequent chapters focus on the different possibilities for improved sustainability offering a step by step technical approach to areas including design properties renewable plastics and recycling and re use Each of these pillars are supported by data examples analysis and best practice guidance Finally the latest developments and future possibilities are considered Approaches the idea of sustainability from numerous angles offering practical solutions to improve sustainability in the development of plastic components and products Explains how sustainability can be applied across plastics design materials selection processing and end of life all set alongside socioeconomic factors Considers key areas of innovation such as eco design novel opportunities for recycling or re use bio based polymers and new technologies

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