

## EXPERIMENT No #1

### **Gradation of Fine Aggregate by Sieve analysis (ASTM C-136)**

#### **OBJECTIVE:**

This test method covers the determination of the particle size distribution of fine aggregates by sieving.

#### **APPARATUS**

Weighing machine, ASTM Standard sieve set, pan & electric sieve shaker.



Figure1: ASTM Standard sieve set.

#### **THEORETICAL BACKGROUND:**

The purpose of the sieve analysis is to check the aggregate that we are using is suitable for use and fulfill our requirement or not. If the requirements come between fines range then the aggregate is suitable for use in any construction work. It also gives information about the maximum number of size aggregates present in the sample. For fine aggregate the fines modulus must be between 2.3 and 3.2 is recommended by ASTM. If else this value then the fine aggregate is not suitable for use in any construction work.

# Civil Engineering Materials Lab Manual

**University of Colorado (Boulder  
campus)**

## **Civil Engineering Materials Lab Manual:**

*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

### **Civil Engineering Materials, Testing & Evaluation** Prof.

Mrunalini H. Takarkhede, 2025-09-02 This is the first edition of book entitled Civil Engineering Materials Testing Evaluation is a concise and methodical guide aimed at undergraduate civil engineering students field technicians and educators in India The book systematically introduces core construction materials such as cement aggregates concrete steel and bricks covering their origin classification engineering properties and standard tests Also covers modern civil engineering materials For each material it presents the objective of the test required apparatus material specifications formulas precautions and step by step procedures along with dedicated space for observations and results

*A Guide to Undergraduate Science Course and Laboratory Improvements* National Science Foundation (U.S.). Directorate for Science Education, 1979

Laboratory Manual for Civil Engineering H. S. Moondra, 2019-06-30 This is a laboratory manual which contains a well selected number of experiments for that provide appropriate insights as well as a broad overview of the entire field of civil engineering

### **Civil Engineering Materials** M. Rashad Islam, 2020-04-09 Civil Engineering Materials Introduction and

Laboratory Testing discusses the properties characterization procedures and analysis techniques of primary civil engineering materials It presents the latest design considerations and uses of engineering materials as well as theories for fully understanding them through numerous worked mathematical examples The book also includes important laboratory tests which are clearly described in a step by step manner and further illustrated by high quality figures Also analysis equations and their applications are presented with appropriate examples and relevant practice problems including Fundamentals of Engineering FE styled questions as well those found on the American Concrete Institute ACI Concrete Field Testing Technician Grade I certification exam Features Includes numerous worked examples to illustrate the theories presented Presents Fundamentals of Engineering FE examination sample questions in each chapter Reviews the ACI Concrete Field Testing Technician Grade I certification exam Utilizes the latest laboratory testing standards and practices Includes

additional resources for instructors teaching related courses This book is intended for students in civil engineering construction engineering civil engineering technology construction management engineering technology and construction management programs *Hearings, Reports and Prints of the House Committee on Armed Services* United States.

Congress. House. Committee on Armed Services,1964 *Hearings* United States. Congress. House,1964 **General Catalog** University of Colorado (Boulder campus),1954 *Materials for Civil and Construction Engineers* Michael S. Mamlouk,John P. Zaniewski,2011 Materials for Civil and Construction Engineers 3 e is ideal for courses in Civil Engineering Materials Construction Materials and Construction Methods and Materials offered in Civil Environmental or Construction engineering departments This introduction gives students a basic understanding of the material selection process and the behavior of materials a fundamental requirement for all civil and construction engineers performing design construction and maintenance The authors cover the various materials used by civil and construction engineers in one useful reference limiting the vast amount of information available to the introductory level concentrating on current practices and extracting information that is relevant to the general education of civil and construction engineers A large number of experiments figures sample problems test methods and homework problems gives students opportunity for practice and review

**Hearings** United States. Congress. House. Committee on Armed Services,1963 Engineering Education ,1987-10

**First Chiao-tung University Library Catalogue [Foreign Books Department]** Shanghai jiao tong da xue. T'u shu kuan,1928 *Deterioration of Runway Facilities at Selfridge Air Force Base, Hearings Before the Subcommittee for Special Investigations of ... , 88-2 Under the Authority of H. Res. 84, Hearings Held March 18, 19, 24, and 25, 1964* United States.

Congress. House. Committee on Armed Services,1964 *Who's who in Engineering* ,1922 **Deterioration of Runway Facilities at Selfridge Air Force Base** United States. Congress. House. Committee on Armed Services. Subcommittee for Special Investigations,1964 *Annual Catalog* Mississippi Agricultural and Mechanical College,Mississippi State College,Mississippi State University,1904 The Testing of Materials of Construction William Cawthorne Unwin,1888

**General Catalog** University of Missouri,1911 **Lab Manuals** ,2022-12-28 This laboratory manual is designed to acquaint the student with essential civil engineering experimentation works and various tests to be carried out on and offsite which is required by every civil engineer when he or she enters in a professional set up This lab manual covers various subjects like Mechanics of Solids in which compressive flexure and tensile strength testing is done Engineering Geology where geological properties important from civil engineering point of view are studied Building Material and Concrete Technology lab where testing of material is done Fluid Mechanics lab which is designed to examine the types and various parameters of fluid flow Applied Hydraulics lab where students study on the models of hydraulic machinery Surveying lab where students get to know about field surveying like chain and compass survey Theodolite Survey and Total Station Survey Transportation lab where bitumen and testing of aggregates used for road work construction is done Geotechnical lab where

properties and the strength parameters of the soil are studied Environmental lab where the quality of water and waste water is checked various tests on solid waste samples are done and noise levels at various places are checked Each experiment starts with objectives to be achieved the experimental set up and the materials that are needed to perform the experiment and a stepwise procedure for conducting the experiment and a set of MCQ s at the end The students will note down their observations measurements and or calculations on the Results Sheets provided at the end of the experiment [Advances in Civil Engineering, CEBM 2011](#) Jing Ying Zhao,2011-05-31 Selected peer reviewed papers from 2011 International Conference on Civil Engineering and Building Materials CEBM 2011 July 29 31 2011 Kunming China

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