

Standard Practice for Verification and Classification of Extensometer Systems¹

This standard is issued under the fixed designation E83; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This practice covers procedures for the verification and classification of extensometer systems, but it is not intended to be a complete purchase specification. The practice is applicable only to instruments that indicate or record values that are proportional to changes in length corresponding to either tensile or compressive strain. Extensometer systems are classified on the basis of the magnitude of their errors.

1.2 Because strain is a dimensionless quantity, this document can be used for extensometers based on either SI or US customary units of displacement.

Note 1—Bonded resistance strain gauges directly bonded to a specimen cannot be calibrated or verified with the apparatus described in this practice for the verification of extensometers having definite gauge points. (See procedures as described in Test Methods E251.)

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards²

- E6 Terminology Relating to Methods of Mechanical Testing
- E21 Test Methods for Elevated Temperature Tension Tests of Metallic Materials
- E251 Test Methods for Performance Characteristics of Metallic Bonded Resistance Strain Gauges

3. Terminology

3.1 **Definitions:** In addition to the terms listed, see Terminology E6.

¹ This practice is under the jurisdiction of ASTM Committee E28 on Mechanical Testing and is the direct responsibility of Subcommittee E28.01 on Calibration of Mechanical Testing Machines and Apparatus.

Current edition approved June 1, 2010. Published July 2010. Originally approved in 1956. Last previous edition approved in 2010 as E83 – 10 (DOI: 10.1520/E083-10a).

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

3.1.1 **calibration**—a determination of the calibration factor for a system using established procedures.

3.1.2 **calibration factor**—the factor by which the change in extensometer reading must be multiplied to obtain the equivalent strain.

3.1.2.1 **Discussion**—For any extensometer, the calibration factor is equal to the ratio of change in length to the product of the gauge length and the change in the extensometer reading. For direct-reading extensometers the calibration factor is unity.

3.1.3 **compressometer**—a specialized extensometer used for sensing negative or compressive strain.

3.1.4 **deflectometer**—a specialized extensometer used for sensing of extension or motion, usually without reference to a specific gauge length.

3.1.5 **error in extensometer system**—the value obtained by subtracting the correct value of the strain from the indicated value given by the extensometer system.

3.1.6 **extensometer**, *n*—a device for sensing strain.

3.1.7 **extensometer system**—a system for sensing and indicating strain.

3.1.7.1 **Discussion**—The system will normally include an extensometer, conditioning electronics and auxiliary device (recorder, digital readout, computer, etc.). However, completely self-contained mechanical devices are permitted. An extensometer system may be one of three types.

3.1.8 **Type 1 extensometer system, *n***—an extensometer system which both defines gauge length and senses extension, for example, a clip-on strain gauge type with conditioning electronics.

3.1.9 **Type 2 extensometer system, *n***—an extensometer which senses extension and the gauge length is defined by specimen geometry or specimen features such as ridges or notches.

3.1.9.1 **Discussion**—A Type 2 extensometer is used where the extensometer gauge length is determined by features on the specimen, for example, ridges, notches, or overall height (in case of compression test piece). The precision associated with gauge length setting for a Type 2 extensometer should be specified in relevant test method or product standard. The position readout on a testing machine is not recommended for use in a Type 2 extensometer system.

Astm E83

Instrument Society of America

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Instrument Society of America text.

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Index of Specifications and Standards, 2005 *Polymer Matrix Composites: Guidelines for Characterization of Structural Materials* Composite Materials Handbook – 17 (CMH-17), 2022-09-06 The first volume of this six volume compendium contains guidelines for determining the properties of polymer matrix composite material systems and their constituents as well as the properties of generic structural elements including test planning test matrices sampling conditioning test procedure selection data reporting data reduction statistical analysis and other related topics Special attention is given to the statistical treatment and analysis of data Volume 1 contains guidelines for general development of material characterization data as well as specific requirements for publication of material data in CMH 17 The primary purpose of this volume of the handbook is to document industry best practices for engineering methodologies related to testing data reduction and reporting of property data for current and emerging composite materials It is used by engineers worldwide in designing and fabricating products made from composite materials The Composite Materials Handbook referred to by industry groups as CMH 17 is a six volume engineering reference tool that contains thousands of records of the latest test data for polymer matrix metal matrix ceramic matrix and structural sandwich composites CMH 17 provides information and guidance necessary to design analyze fabricate certify and support end items using composite materials It includes properties of composite materials that meet specific data requirements as well as guidelines for design analysis material selection manufacturing quality control and repair NIST Special Publication, 2002 **Mesh Methods for Boundary-Value Problems and Applications** Ildar B. Badriev, Victor Banderov, Sergey A. Lapin, 2022-09-14 This book gathers papers presented at the 13th International Conference on Mesh Methods for Boundary Value Problems and Applications which was held in Kazan Russia in October 2020 The papers address the following topics the theory of mesh methods for boundary value problems in mathematical physics non linear mathematical models in mechanics and physics algorithms for solving variational inequalities computing science and educational systems Given its scope the book is chiefly intended for students in the fields of mathematical modeling science and engineering However it will also benefit scientists and graduate students interested in these fields *NUREG/CR*. U.S. Nuclear Regulatory Commission, 1981 **Guide to Stability Design Criteria for Metal Structures** Ronald D. Ziemian, 2010-02-08 The definitive guide to stability design criteria fully updated and incorporating current research Representing nearly fifty years of cooperation between Wiley and the Structural Stability Research Council the Guide to Stability Design Criteria for Metal Structures is often described as an invaluable reference for practicing structural engineers and researchers For generations of engineers and architects the Guide has served as the definitive work on designing steel and aluminum structures for stability Under the editorship of Ronald Ziemian and written by SSRC task group members who are leading experts in structural stability theory and research this Sixth Edition brings this foundational work in line with current practice and research The Sixth Edition incorporates a

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Springer Handbook of Experimental Solid Mechanics William N. Sharpe, Jr., William N. Sharpe, 2008-12-04 The Springer Handbook of Experimental Solid Mechanics documents both the traditional techniques as well as the new methods for experimental studies of materials components and structures The emergence of new materials and new disciplines together with the escalating use of on and off line computers for rapid data processing and the combined use of experimental and numerical techniques have greatly expanded the capabilities of experimental mechanics New exciting topics are included on biological materials MEMS and NEMS nanoindentation digital photomechanics photoacoustic characterization and atomic force microscopy in experimental solid mechanics Presenting complete instructions to various areas of experimental solid mechanics guidance to detailed expositions in important references and a description of state of the art applications in important technical areas this thoroughly revised and updated edition is an excellent reference to a widespread academic industrial and professional engineering audience

Materials Metrology and Standards for Structural Performance B.F. Dyson, S. Loveday, M.G. Gee, 2012-12-06 This is a contributed reference work from international authors from both industry and academia It deals with materials metrology and standards for engineering design This includes examination of metrological considerations as well as investigating the many measurement and control techniques It will be of interest to all materials scientists and engineers from graduates to experienced professionals and will be particularly useful to all those involved with measurement instrumentation

Military Standard United States. Dept. of Defense, **Performance of Bolting Materials in High Temperature Plant Applications** Andrew Strang, 2020-11-25 This book discusses the technology of high temperature bolting materials and the design considerations of high temperature bolted joints It is based on the second international conference on high temperature creep resistant materials held in York

Handbook Of Biomaterials Evaluation Andreas F von Recum, 1998-12-18 This handbook addresses the needs of those who are involved in inventing developing and testing implants and are concerned about the interactions between biomaterial and body tissue The authors explore the physical chemical mechanical and regulatory considerations of synthetic materials used in surgical and implant procedures and how

these factors impact the latest developments and new approaches This updated edition provides the biomaterials professional with necessary information on a range of issues including bulk characterization surface evaluations toxicological evaluations in vitro methods for safety evaluation methods for evaluating materials in special applications surgical considerations systems implantology soft and hard tissue history regulatory aspects and clinical trials

Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III September 2005 , The Science of Armour Materials Ian Crouch,2016-09-21

The Science of Armour Materials comprehensively covers the range of armor materials from steels and light alloys through glasses and ceramics to fibers textiles and protective apparel The book also discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies Each chapter is written from an international perspective including reviews of the current global literature and incorporates case studies that focus upon real life applications research outcomes and lessons learned The threat spectrum is restricted to small arms ammunition high velocity fragments and stab and spike attacks as well as blast loadings Features input from an editor who is an expert in his field Dr Ian Crouch the author of over 80 publications in his field with three patents to his name Provides systematic and comprehensive coverage of armor materials modeling and testing Offers a cross disciplinary approach that brings together expertise in materials science and defense engineering Discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies

NASA Tech Briefs ,1985 *Carbon-Carbon Composites* E. Savage,2012-12-06 Carbon fibre reinforced carbon composites form a very specialized group of materials They may be considered as a development of the family of carbon fibre reinforced polymer composites which are becoming ever more prevalent in modern engineering Since the early 1960s a large number of so called advanced materials have appeared on the scene Carbon arbon is arguably the most successful of all these products finding many and varied applications In the field of Formula 1 motor racing for example the present levels of performance simply could not be achieved without the use of carbon carbon brakes and clutches Despite the materials obvious assets they have not and will not reach their full potential until their inherent problems of excessive production costs and oxidation resistance have been addressed properly In this respect the carbon carbon story of much potential but only limited success serves as a lesson to all those involved in materials research development and application In writing this book I have tried to set up a logical progression of what the materials are how they are made what their assets and deficiencies are what they are used for and to what extent they are commercially exploited Each specialized chapter may be considered in isolation or as part of a sequence whereas the final chapter provides a summary of the principal concepts as well as a basic review of the economic situation past present and hopefully future

Commercial News USA ,1992

Applied Physics, System Science and Computers Klimis Ntalianis,Anca Croitoru,2017-07-20 This book reports on advanced theories and methods in three related fields of research applied physics system science and computers It is

organized in two main parts the first of which covers applied physics topics including lasers and accelerators condensed matter soft matter and materials science nanoscience and quantum engineering atomic molecular optical and plasma physics as well as nuclear and high energy particle physics It also addresses astrophysics gravitation earth and environmental science as well as medical and biological physics The second part focuses on advances in system science and computers exploring automatic circuit control power systems computer communication fluid mechanics simulation and modeling software engineering data structures and applications of artificial intelligence among other areas Offering a collection of contributions presented at the 1st International Conference on Applied Physics System Science and Computers APSAC 2016 the book bridges the gap between applied physics and electrical engineering It not only presents new methods but also promotes collaborations between different communities working on related topics at the interface between physics and engineering with a special focus on communication data modeling and visualization quantum information applied mechanics as well as bio and geophysics

Pesticide Risk Assessment in Rice Paddies: Theory and Practice Ettore

Capri,Dimitrios Karpouzas,2011-08-11 Rice is cultivated throughout the world under submerged conditions The high water requirements and the heavy pesticide load used in rice paddies worldwide have resulted in contamination of associated surface water such as streams ditches rivers and lakes The uniform risk assessment approach which has been developed for other crops is not applicable to rice paddies because of the specific conditions applied to rice cultivation Pesticide Risk Assessment in Rice Paddies Theory and Practice fills the gap in information on this subject Written by experts this book summarizes the methods used for pesticide risk assessment in rice paddies the limitations and problems encountered and future developments It also examines the various agronomic pesticide application and risk assessment approaches used in different rice cultivated zones in Asia America and Europe and is an essential reference for those working in this area The only up to date book dealing with pesticide risk assessment in the flooded conditions of rice paddies Offers guidelines on the use and application of existing modeling tools specific for rice cultivation Presents the differences and similarities in rice cropping systems and how these relate to pesticide risk assessment

Bridge Maintenance, Safety, Management, Digitalization and Sustainability Jens Sandager Jensen,Dan M. Frangopol,Jacob Wittrup Schmidt,2024-07-12 Bridge Maintenance Safety Management Digitalization and Sustainability collects the lectures and technical papers presented at the 12th International Conference on Bridge Maintenance Safety and Management IABMAS 2024 Copenhagen Denmark 24 28 June 2024 This Open Access book contains 480 contributions including the T Y Lin Lecture 9 Keynote Lectures and 470 technical papers from 44 countries The contributions are presented bring together academic and technological developments in Bridge Maintenance Safety Management Digitalization and Sustainability to solve new and old problems with innovative solutions Major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle resilience sustainability standardization analytical models bridge management

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