



Standard Practice for Conducting Wire-on-Bolt Test for Atmospheric Galvanic Corrosion¹

This standard is issued under the fixed designation G 116; 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.

1. Scope

1.1 This practice covers the evaluation of atmospheric galvanic corrosion of any anodic material that can be made into a wire when in contact with a cathodic material that can be made into a threaded rod.

1.2 When certain materials are used for the anode and cathode, this practice has been used to rate the corrosivity of atmospheres.

1.3 The wire-on-bolt test was first described in 1955 (1),² and has since been used extensively with standard materials to determine corrosivity of atmospheres under the names CLIMAT Test (CLassify Industrial and Marine Δ Tmospheres) (2-5) and ATCORR (Δ Tmospheric CORROsivity) (6-9).

1.4 *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 Standards:

- G 1 Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens³
- G 3 Practice for Conventions Applicable to Electrochemical Measurements in Corrosion Testing³
- G 15 Terminology Relating to Corrosion and Corrosion Testing³
- G 16 Guide for Applying Statistics to Analysis of Corrosion Data³
- G 50 Practice for Conducting Atmospheric Corrosion Tests

G 91 Practice for Monitoring Atmospheric SO₂ Using the Sulfation Plate Technique³

G 92 Practice for Characterization of Atmospheric Test Sites³

G 104 Test Method for Assessing Galvanic Corrosion Caused by the Atmosphere³

3. Terminology

3.1 For definitions of terms used in this practice, refer to Terminology G 15. For conventions related to this method, refer to Practice G 3.

4. Summary of Practice

4.1 The practice consists of wrapping a wire of the anode material around the threads of a bolt or threaded rod of the cathode material, exposing the assembly to atmosphere, and determining mass loss of the anode wire after exposure. Reference specimens of the anode wire on a threaded, non-conductive, non-porous rod⁴ are used to separate general and crevice corrosion effects from galvanic corrosion effects.

5. Significance and Use

5.1 The small size of the wire compared to the short galvanic interaction distance in atmospheric exposures gives a large cathode-to-anode area ratio which accelerates the galvanic attack. The area between the wire and the threads creates a long, tight crevice, also accelerating the corrosion. For these reasons, this practice, with a typical exposure period of 90 days, is the most rapid atmospheric galvanic corrosion test, particularly compared to Test Method G 104. The short duration of this test means that seasonal atmospheric variability can

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Geotechnical Laboratory Measurements for Engineers John T. Germaine, Amy V. Germaine, 2009-06-02 A comprehensive guide to the most useful geotechnical laboratory measurements Cost effective high quality testing of geo materials is possible if you understand the important factors and work with nature wisely *Geotechnical Laboratory Measurements for Engineers* guides geotechnical engineers and students in conducting efficient testing without sacrificing the quality of results Useful as both a lab manual for students and as a reference for the practicing geotechnical engineer the book covers thirty of the most common soil tests referencing the ASTM standard procedures while helping readers understand what the test is analyzing and how to interpret the results Features include Explanations of both the underlying theory of the tests and the standard testing procedures The most commonly taught laboratory testing methods plus additional advanced tests Unique discussions of electronic transducers and computer controlled tests not commonly covered in similar texts A support website at www.wiley.com/college/germaine with blank data sheets you can use in recording the results of your tests as well as Microsoft Excel spreadsheets containing raw data sets supporting the experiments

Teaching and Collecting Technical Standards Chelsea Leachman, Erin M. Rowley, Margaret Phillips, Daniela Solomon, 2023-09-15 Technical standards are a vital source of information for providing guidelines during the design manufacture testing and use of whole products materials and components To prepare students especially engineering students for the workforce universities are increasing the use of standards within the curriculum Employers believe it is important for recent university graduates to be familiar with standards Despite the critical role standards play within academia and the workforce little information is available on the development of standards information literacy which includes the ability to understand the standardization process identify types of standards and locate evaluate and use standards effectively Libraries and librarians are a critical part of standards education and much of the discussion has been focused on the curation of standards within libraries However librarians also have substantial experience in developing and teaching standards information literacy curriculum With the need for universities to develop a workforce that is well educated on the use of standards librarians and course instructors can apply their experiences in information literacy toward teaching students the knowledge and skills regarding standards that they will need to be successful in their field This title provides background information for librarians on technical standards as well as collection development best practices It also creates a model for librarians and course instructors to use when building a standards information literacy curriculum

ASTM Standardization News American Society for Testing and Materials, 2007 [Defense Standardization Program Journal](#), 2007 [Construction Specifications Writing](#) Mark

Kalin, Robert S. Weygant, Harold J. Rosen, John R. Regener, 2011-09-13 Updated edition of the comprehensive rulebook to the specifier's craft With this latest update *Construction Specifications Writing* Sixth Edition continues to claim distinction as the foremost text on construction specifications This mainstay in the field offers comprehensive practical and professional

guidance to understanding the purposes and processes for preparation of construction specifications This new edition uses real world document examples that reflect current writing practices shaped by the well established principles and requirements of major professional associations including the American Institute of Architects AIA the Engineers Joint Contract Documents Committee EJCDC and the Construction Specifications Institute CSI Also included are guidelines for correct terminology product selection organization of specifications according to recognized CSI formats and practical techniques for document production Fully revised throughout this Sixth Edition includes Updates to MasterFormat 2004 as well as SectionFormat PageFormat 2007 and Uniformat End of chapter questions and specification writing exercises Samples of the newly updated construction documents from the AIA New chapter on sustainable design and specifications for LEED projects Updated information on the role of specifications in Building Information Modeling BIM

Risk Management in Sport and Recreation John Otto Spengler, Daniel Connaughton, Andrew T. Pittman, 2006 Risk Management in Sport and Recreation is a comprehensive resource for those charged with the responsibility of providing for the safety of participants and spectators in a sport or recreation setting It covers a range of safety issues including lightning heat illness aquatics playground safety drug testing and medical emergency action plans Readers receive clear and detailed explanations of issues to consider before making decisions on risk management Risk Management in Sport and Recreation is designed to provide a foundation for approaching key issues in safety and risk management It shows readers how to evaluate and analyze various safety issues and apply the underlying concepts to a variety of situations The following are unique features of the text A safety guidelines finder lists Web sites of accessible standards guidelines and recommendations from leading organizations Chapter objectives and pullout boxes of key points and key statistics stress the importance of the topic under discussion Threshold issues in each chapter highlight important factors to consider when making decisions on risk management Real world applications at the end of each chapter present scenarios involving the potential for harm and readers must make a decision on how to address the issues Examples of public service announcements posters and other publicly viewed safety information are presented An appendix offers examples of emergency action plans checklists and recommendations from organizations such as the National Lightning Safety Institute and university aquatic centers A companion Web site provides links to the Web sites used in the book as well as updates to guidelines and links that may occur after the book is in print The safety guidelines finder gives students and practitioners a single location from which they can easily access important safety information Organized under land based or water based activities each activity lists guidelines recommendations and standards along with the source for that information Each entry includes Web sites where readers can find the full documents The text also features sample guidelines and safety checklists from agencies and associations that demonstrate how organizations might plan for risk and communicate safety information Readers also consider the types of postings and equipment they will need in order to communicate their risk management plans and they are given real life situations in

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Proceedings of the Indian Geotechnical Conference (IGC 2024), Volume 2 Manish S. Dixit, Sumeet S. Jaiswal, Yogesh Shermale, Awadhesh P. Singh, Vidya Bhushan Maji, 2025-11-14 This book presents select proceedings of the Indian Geotechnical Conference IGC 2024 held at MIT Chhatrapati Sambhajanagar The book provides the collection of papers that were presented at the IGC 2024 The book covers topic related to geophysical investigation shallow and deep foundation geosynthetics earth retaining structures soil dynamics ground improvement physical and numerical modelling tunnelling and underground structures reliability in geotechnical engineering geomaterial characterisation and so on This book provides its readers an opportunity to enhance their research capacities and knowledge in the various fields of geotechnical engineering This book is a valuable reference book for beginners researchers academicians and professionals interested in geotechnical engineering covering the design and execution of foundations and other structures for variety of infrastructural projects

Solar Energy Gerard M Crawley, 2016-04-14 Concerns about energy resources and the environmental impact of energy use will continue to be important globally World Scientific's unique series of books on Current Energy Issues is intended in part as an expansion and update of the material contained in the World Scientific Handbook of Energy Each volume will focus on related energy resources or issues and will contain a broader range of topics with more explanatory text This Solar Energy volume covers a variety of approaches to the use of solar energy These include large scale photovoltaic production of electricity as well as more local applications in the home and businesses Similarly there is an extensive discussion of large scale solar thermal electricity production and smaller scale uses such as solar water heating home heating and cooling plus crop drying There is also discussion of more forward looking technologies including the production of fuels using artificial photosynthesis and the production of biomass

Advances in Materials and Manufacturing K. Palanikumar, 2015-06-08 Selected peer reviewed papers from the International Conference on Advances in Materials and Manufacturing Engineering ICAMME 2014 December 19-20 2014 Chennai India

Laboratory Corrosion Tests and Standards Gardner S. Haynes, 1985

Modern Steel Construction, 2009 **Architectural Graphic Standards for Residential Construction** American Institute of Architects, 2010-04-26 The residential construction market may have its ups and downs but the need to keep your construction knowledge current never lets up Now with the latest edition of Architectural Graphic Standards for Residential Construction you can keep your practice at the ready This edition was expertly redesigned to include all new material on current technology specific to residential projects for anyone designing constructing or modifying a residence With additional new content covering sustainable and green designs sample residential drawings residential construction code requirements

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Architectural Graphic Standards The American Institute of Architects, 2007-03-30 Since 1932 the ten editions of Architectural Graphic Standards have been referred to as the architect s bible From site excavation to structures to roofs this book is the first place to look when an architect is confronted with a question about building design With more than 8 000 architectural illustrations including both reference drawings and constructible architectural details this book provides an easily accessible graphic reference for highly visual professionals To celebrate seventy five years as the cornerstone of an industry this commemorative Eleventh Edition is the most thorough and significant revision of Architectural Graphic Standards in a generation Substantially revised to be even more relevant to today s design professionals it features An entirely new innovative look and design created by Bruce Mau Design that includes a modern page layout bold second color and new typeface Better organized a completely new organization structure applies the UniFormat r classification system which organizes content by function rather than product or material Expanded and updated coverage of inclusive universal and accessible design strategies Environmentally sensitive and sustainable design is presented and woven throughout including green materials LEEDS standards and recyclability A bold contemporary new package as impressive closed as it is open the Eleventh Edition features a beveled metal plate set in a sleek black cloth cover Ribbon Markers included as a convenient and helpful way to mark favorite and well used spots in the book All New material Thoroughly reviewed and edited by hundreds of building science experts and experienced architects all new details and content including new structural technologies building systems and materials emphasis on sustainable construction green materials LEED standards and recyclability expanded and updated coverage on inclusive universal and accessible design strategies computing technologies including Building Information Modeling BIM and CAD CAM new information on regional and international variations accessibility requirements keyed throughout the text new standards for conducting disseminating and applying architectural research New and improved details With some 8 500

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Architectural Detailing Edward Allen, Patrick Rand, 2009-10-19 This edition of the industry standard on architectural detailing includes new sections covering analysis and modification of existing details and design of new details both basic and advanced Revised to address sustainability and to reflect the International Building Code Architectural Detailing continues to deliver reliable insightful information on how to design details that will be water and airtight control the flows of heat and water vapor adjust to all kinds of movement age gracefully be easy to construct and still look good Conveniently organized by the three major concerns of the detailer function constructibility and aesthetics this edition features Richly illustrated examples of detail design case studies and practical exercises New and revised patterns showing form constructibility and aesthetics Everything you need whether a student or professional to design details that work Order your copy today

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