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Senior Corrosion Technologist This certification is geared towards experienced personnel possessing practical knowledge over multiple areas of corrosion and its control. This individual is capable of performing responsible work under the direction of Specialist level personnel but requiring minimal supervision.

Senior Corrosion Technologist - NACE Institute

Senior Internal Corrosion Technologist The Senior Internal Corrosion Technologist should have a

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thorough understanding of electrochemical and corrosion principals, field testing, laboratory analysis, monitoring techniques, and mitigation strategies.

Senior Internal Corrosion Technologist - NACE Institute

Certification Exam – NACE Corrosion Technologist Exam Certification candidates have four (4) years to complete all requirements, including a successful completion of the exam, and an approved application with the required work experience and education requirements.

Corrosion Technologist - NACE Institute

Student Membership Students, take your first step into becoming a professional by becoming a NACE member. Nearly 24 student sections worldwide connect you with industry professionals, potential employers, and the resources you need to build your network and begin a successful career in the corrosion industry.

Student Membership - NACE

The Designing for Corrosion Control Course covers the principles of corrosion and corrosion control and provides a systematic method for applying the technology of corrosion prevention to the design process. An overview of the steps involved in materials selection common to many industries is also provided. Corrosion control in system design and the financial principles used in evaluating ...

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Designing for Corrosion Control - NACE

This course covers a basic but thorough review of causes of corrosion and the methods by which corrosion is identified, monitored, and controlled. Active participation is encouraged through hands-on experiments, case studies, and open discussion format.

Basic Corrosion - NACE

NACE CIP Level 3 Peer Review Certification or PCS 2 or Senior Corrosion Technologist 5 years' experience in pipeline coatings application, integrity or asset management. Direct Assessment. NACE CP Technologist, Corrosion Specialist, or Senior Corrosion Technologist 5 years' experience in direct assessment, integrity or asset management

Become a NACE Instructor - NACE - NACE International

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Career Development - NACE - NACE International

Cathodic Protection 3 - Technologist (CP3) Virtual. Get the same in-person CP3-Cathodic Protection Technologist course – only Virtually! The CP3 course builds on the technology presented in the CP2 course with a strong focus on interpretation of CP data, trouble shooting, and migration of problems that arise in both galvanic and impressed current systems, including design calculations for ...

CP 3 - Cathodic Protection Technologist Virtual - NACE

This course focuses on the monitoring techniques and mitigation strategies required to assess internal corrosion and develop and manage internal corrosion control programs. Data interpretation, analysis, and integration, as well as criteria for determining corrective action for high-level internal corrosion problems within a pipeline system, will be covered in detail.

Internal Corrosion for Pipelines - Advanced - NACE

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NACE International Student Membership The Student Membership level is designed for university students who want to access expanding technology, gain a global network of more than 37,000 peers, and further the mission of the association: to protect people, assets, and the environment from the adverse effects of corrosion.

NACE International : Accredible : Certificates, Badges and ...

NACE International Senior Corrosion Technologist, No. 4194. EDUCATION: Associate of Applied Science - Mechanical Engineering Technology. Delaware Technical & Community College, Stanton, Delaware – 1988. 80/124 hours earned toward BA Degree as continuing education student: University of Delaware, Newark, Delaware. PROFESSIONAL EXPERIENCE: Corrosion Testing Laboratories, Inc., Newark, DE ...

CTL-FRED M. SHERMAN, Senior Corrosion Technologist

NACE Sponsored Event. Corrosion Technology Week (CTW) is an annual "work week" for members of

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NACE International technical committees. Sponsored by the Technical Coordination Committee, this event includes a series of meetings focused on methods of identifying, preventing, and combating corrosion problems across all major industries.

CANCELED: NACE Corrosion Technology Week 2020 - NACE

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The corrosion of carbon steels in amine units used for gas treatment in refining operations is a major problem for the petrochemical industry. Maximising amine unit reliability, together with improving throughput, circulation and treatment capacity, requires more effective ways of measuring and predicting corrosion rates. However, there has been a lack of data on corrosion. This valuable report helps to remedy this lack of information by summarising findings from over 30 plants. It covers such amine types as methyl diethanolamine (MDEA), diethanolamine (DEA), monoethanolamine (MEA) and di-isopropanolamine (DIPA), and makes recommendations on materials and process parameters to maximise amine unit efficiency and reliability. Covers such amine types as Methyl Diethanolamine (MDEA) and Di-isopropanolamine Makes recommendations on materials and process parameters to maximise amine unit efficiency and reliability

The advancement of methods and technologies in the oil and gas industries calls for new insight into the corrosion problems these industries face daily. With the application of more precise instruments and laboratory techniques as well as the development of new scientific paradigms, corrosion professionals

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are also witnessing a new era in the way d

This book covers the fundamental aspects and the application of electrochemical impedance spectroscopy (EIS), with emphasis on a step-by-step procedure for mechanistic analysis of data. It enables the reader to learn the EIS technique, correctly acquire data from a system of interest, and effectively interpret the same. Detailed illustrations of how to validate the impedance spectra, use equivalent circuit analysis, and identify the reaction mechanism from the impedance spectra are given, supported by derivations and examples. MATLAB® programs for generating EIS data under various conditions are provided along with free online video lectures to enable easier learning. Features: Covers experimental details and nuances, data validation method, and two types of analysis – using circuit analogy and mechanistic analysis Details observations such as inductive loops and negative resistances Includes a dedicated chapter on an emerging technique (Nonlinear EIS), including code in the supplementary material illustrating simulations Discusses diffusion, constant phase element, porous electrodes, and films Contains exercise problems, MATLAB codes, PPT slide, and illustrative examples This book is aimed at senior undergraduates and advanced graduates in chemical engineering, analytical chemistry, electrochemistry, and spectroscopy.

A text that emphasizes the engineering aspects of corrosion and its control in ways helpful to practicing engineers, based on notes used by the authors for an advanced undergraduate engineering course at Queen's U., Kingston, Ontario. This revised and expanded edition places particular emphasis on u

This book covers a broad range of materials science that has been brought to bear on providing solutions

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to the challenges of developing self-healing and protective coatings for a range of metals. The book has a strong emphasis on characterisation techniques, particularly new techniques that are beginning to be used in the coatings area. It features many contributions written by experts from various industrial sectors which examine the needs of the sectors and the state of the art. The development of self-healing and protective coatings has been an expanding field in recent years and applies a lot of new knowledge gained from other fields as well as other areas of materials science to the development of coatings. It has borrowed from fields such as the food and pharmaceutical industries who have used, polymer techniques, sol-gel science and colloidosome technology for a range encapsulation techniques. It has also borrowed from fields like hydrogen storage such as from the development of hierarchical and other materials based on organic templating as “nanocontainers” for the delivery of inhibitors. In materials science, recent developments in high throughput and other characterisation techniques, such as those available from synchrotrons, are being increasingly used for novel characterisation – one only needs to look at the application of these techniques in self healing polymers to gauge wealth of new information that has been gained from these techniques. This work is largely driven by the need to replace environmental pollutants and hazardous chemicals that represent risk to humans such as chromate inhibitors which are still used in some applications.

This book serves as a reference for engineers, scientists, and students concerned with the use of materials in applications where reliability and resistance to corrosion are important. It updates the coverage of its predecessor, including coverage of: corrosion rates of steel in major river systems and atmospheric corrosion rates, the corrosion behavior of materials such as weathering steels and newer stainless alloys, and the corrosion behavior and engineering approaches to corrosion control for

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nonmetallic materials. New chapters include: high-temperature oxidation of metals and alloys, nanomaterials, and dental materials, anodic protection. Also featured are chapters dealing with standards for corrosion testing, microbiological corrosion, and electrochemical noise.

Issues include special section called Corrosion abstracts.

While there are several books on market that are designed to serve a company's daily shop-floor needs. Their focus is mainly on the physically making specific types of welds on specific types of materials with specific welding processes. There is nearly zero focus on the design, maintenance and troubleshooting of the welding systems and equipment. Applied Welding Engineering: Processes, Codes and Standards is designed to provide a practical in-depth instruction for the selection of the materials incorporated in the joint, joint inspection, and the quality control for the final product. Welding Engineers will also find this book a valuable source for developing new welding processes or procedures for new materials as well as a guide for working closely with design engineers to develop efficient welding designs and fabrication procedures. Applied Welding Engineering: Processes, Codes and Standards is based on a practical approach. The book's four part treatment starts with a clear and rigorous exposition of the science of metallurgy including but not limited to: Alloys, Physical Metallurgy, Structure of Materials, Non-Ferrous Materials, Mechanical Properties and Testing of Metals and Heat Treatment of Steels. This is followed by self-contained sections concerning applications regarding Section 2: Welding Metallurgy & Welding Processes, Section 3: Nondestructive Testing, and Section 4: Codes and Standards. The author's objective is to keep engineers moored in the theory taught in the university and colleges while exploring the real world of practical welding engineering. Other

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topics include: Mechanical Properties and Testing of Metals, Heat Treatment of Steels, Effect of Heat on Material During Welding, Stresses, Shrinkage and Distortion in Welding, Welding, Corrosion Resistant Alloys-Stainless Steel, Welding Defects and Inspection, Codes, Specifications and Standards. The book is designed to support welding and joining operations where engineers pass plans and projects to mid-management personnel who must carry out the planning, organization and delivery of manufacturing projects. In this book, the author places emphasis on developing the skills needed to lead projects and interface with engineering and development teams. In writing this book, the book leaned heavily on the author's own experience as well as the American Society of Mechanical Engineers (www.asme.org), American Welding Society (www.aws.org), American Society of Metals (www.asminternational.org), NACE International (www.nace.org), American Petroleum Institute (www.api.org), etc. Other sources includes The Welding Institute, UK (www.twi.co.uk), and Indian Air force training manuals, ASNT (www.asnt.org), the Canadian Standard Association (www.cas.com) and Canadian General Standard Board (CGSB) (www.tpsgc-pwgsc.gc.ca). Rules for developing efficient welding designs and fabrication procedures Expert advice for complying with international codes and standards from the American Welding Society, American Society of Mechanical Engineers, and The Welding Institute(UK) Practical in-depth instruction for the selection of the materials incorporated in the joint, joint inspection, and the quality control for the final product.

Starts with a history of generic pipeline coating types and technical information about use. Practical information about selection and evaluation for each type of coating system is provided. Discussion of how coatings work with cathodic protection, CP shielding by coatings and other related issues with the various coating systems related to CP.

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