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The superior goal of the gebo research association was making important contributions for the future reliable drilling under the existing “hot-hard-rock” conditions in Niedersachsen and their development to the geothermal drillings with sustainable geological subsurface heat exchangers. This goal should be achieved due to the solid research and innovative technology approaches in their combination within one concept for pioneering methods in deep geothermal drillings in hard rock, to be more exact - in interdisciplinary cooperation on engineers and scientists - in cooperation between industry and University, researchers and users Gebo research association comprised scientists and technicians of different research institutions and universities who are working in 33 projects. The individual projects were assigned to one of the 4 main research fields or focus areas. Gebo research association started its activities with 7 project partners participating: - Technische Universität Braunschweig (TUBS) - Technische Universität Clausthal (TUC) - Gottfried Wilhelm Leibniz Universität Hannover (LUH) - Georg-August-Universität Göttingen (UGOE) - Leibniz-Institut für Angewandte Geophysik (LIAG) - Bundesanstalt für Geowissenschaften und Rohstoffe (BGR) - Energie-Forschungszentrum Niedersachsen (EFZN) Baker Hughes, an industrial partner, participated in the association and supplies it with its experience and additional funds. Mineral scale deposits, corrosion, suspended matter, and microbiological growth are factors that must be controlled in industrial water systems. Research on understanding the mechanisms of these problems has attracted considerable attention in the past three decades as has progress concerning water treatment additives to ameliorate these concerns. Water utilities often do not know the specific cause of external corrosion observed on their water mains, and consequently, the chosen preventative measure may not work effectively. Historically, these choices are based on data from other industries (e.g., gas and oil) and may not be suitable for the water industry. Corrosion of metallic pipes can be caused by a variety of mechanisms, each of which requires a different solution. Determining which corrosion mechanism is at work is not a simple matter, because the resulting pipe damage looks similar for all of them. The failure to properly identify corrosion sources may produce prevention systems that are ineffective or do not last. For example, it is not effective to install an anode bag on a main that has a bacteriological corrosion problem. Similarly, an anode bag installed to reduce corrosion caused by a stray impressed current would be quickly used up and would provide only short-term protection. Much recent research on corrosion has focused on internal corrosion, primarily related to water-quality issues, such as lead and copper control and red water. This project will examine external corrosion, which affects the structural integrity of the pipe and makes it vulnerable to leaks and breakage. After identifying the causes of external corrosion, the study will find economical solutions for each type of corrosion and verify them through field trials. Genetic programming is a new and evolutionary method that has become a novel area of research within artificial intelligence known for automatically generating high-quality solutions to optimization and search problems. This automatic aspect of the algorithms and the mimicking of natural selection and genetics makes genetic programming an intelligent component of problem solving that is highly regarded for its efficiency and vast capabilities. With the ability to be modified and adapted, easily distributed, and effective in large-scale/wide variety of problems, genetic algorithms and programming can be utilized in many diverse industries. This multi-industry uses vary from finance and economics to business and management all the way to healthcare and the sciences. The use of genetic programming and algorithms goes beyond human capabilities, enhancing the business and processes of various essential industries and improving functionality along the way. The Research Anthology on Multi-Industry Uses of Genetic Programming and Algorithms covers the implementation, tools and technologies, and impact on society that genetic programming and algorithms have had throughout multiple industries. By taking a multi-industry approach, this book covers the fundamentals of genetic programming through its technological benefits and challenges along with the latest advancements and future outlooks for computer science. This book is ideal for academicians, biological engineers, computer programmers, scientists, researchers, and upper-level students seeking the latest research on genetic programming. Industry pays an enormous price for material degradation. The Handbook of Environmental Degradation of Materials outlines these costs, but more importantly, explains how to measure, analyze, and prevent environmental degradation for a wide range of industrial materials. Experts from around the world share how a diverse set of industries cope with the degradation of metals, polymers, reinforced concrete, clothing, and wood under adverse environmental conditions such as weather, seawater, and fire. Case studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects. By implementing these standards companies of all sizes should realize savings beneficial to their operations. Reflecting the many changes in the field since the publication of the second edition, Corrosion of Ceramic Materials, Third Edition incorporates more

information on bioceramics, including nanomaterials, as well as the weathering of construction materials. Adhering to the original plan of classification by chemistry, this edition reorganizes the top The corrosion of reinforcing steel in concrete is a major problem facing civil engineers and surveyors throughout the world today. There will always be a need to build structures in corrosive environments and it is therefore essential to address the problems that result. Corrosion of Steel in Concrete provides information on corrosion of steel in at This synthesis will be of interest to state department of transportation (DOT) bridge maintenance engineers, coating specialists, chemists, and researchers. Manufacturers and suppliers of corrosion protection products and systems for exposed structural steel on existing bridges will also find it of interest. This synthesis describes current practice regarding maintenance and protection strategies for exposed structural steel on existing bridges. NCHRP Synthesis 251, Lead-Based Paint Removal for Steel Highway Bridges (1997), provides a complementary and more in-depth treatment of maintenance issues involving lead-based paint removal. This report of the Transportation Research Board defines the maintenance management systems and decision making criteria used by transportation agencies for maintaining exposed bridge steel. Material selection criteria, surface preparation and application practices, quality control and quality assurance programs, and funding mechanisms are discussed in detail. The impact of recent and proposed environmental and worker protection regulations on current practice is reported. Information for the synthesis was collected by surveying state transportation agencies and by conducting a literature search. Responses to the survey, Appendix C to this document, are published on the Internet as NCHRP Web Document 11. Engineers on major building projects continue to echo the sentiment that "painting amounts to 10% of the job, but provides 90% of the problems". This second edition of Steelwork Corrosion Control provides sound advice and authoritative guidance on the principles involved and methods of achieving sound steel protection. Taking into account the considerable developments in the paint protection industry, Steelwork Corrosion Control has been comprehensively updated to include new materials and coating systems, and the number of new ISO / BS / European standards and codes of practice on paints and painting, health and safety, and environmental issues. It is a must-have guide for engineers, architects and designers for whom the protection of structural steelwork is an important, albeit relatively minor, part of their professional activities. David Deacon is the President Elect of the Institute of Corrosion and a Fellow of FTCS (Fellowship of Technical Service Coating). Derek Bayliss is a Past President of the Institute of Corrosion and has served as Chairman of BS 5493 (concerned with coating structures against corrosion). The high demand for advanced metallic materials raises the need for an extensive recycling of metals and such a sustainable use of raw materials. "Sustainable Utilization of Metals - Processing, Recovery and Recycling" comprises the latest scientific achievements in efficient production of metals and such addresses sustainable resource use as part of the circular economy strategy. This policy drives the present contributions, aiming on the recirculation of EoL-streams such as Waste Electric and Electronic Equipment (WEEE), multi-metal alloys or composite materials back into metal production. This needs a holistic approach, resulting in the maximal avoidance of waste. Considering both aspects, circular economy and material design, recovery and use of minor metals play an essential role, since their importance for technological applications often goes along with a lack of supply on the world market. Additionally, their ignoble character and low concentration in recycling materials cause an insufficient recycling rate of these metals, awarding them the status of "critical metals". In order to minimize losses and energy consumption, this issue explores concepts for the optimization concerning the interface between mechanical and thermal pre-treatment and metallurgical processes. Such new approaches in material design, structural engineering and substitution are provided in the chapters. The job market continues to change. Highly skilled and specialized workers are in demand. Traditional education cannot meet all the needs to create specialty skill workers. Certification provides up-to-date training and development while promoting individual or professional skills and knowledge in a focused manner. Certification as a way of continuing professional education can also be more cost effective. As the title suggests, this is an introductory book covering the basics of corrosion. It is intended primarily for professionals who are not corrosion experts, but may also be useful as a quick reference for corrosion engineers. Included in the 12 chapters are discussions of the physical principles and characteristics of corrosion, help in recognizing and preventing corrosion, and techniques for diagnosing corrosion failures. Provides an overview of plastics as well as World of Plastic reviews. Whatever his name or alias at the moment—Henry McCarty, Henry Antrim, Kid Antrim, Billy Bonney—people always called him the Kid. Not until his final month did anyone call him Billy the Kid. Newspapers pictured him as a king of outlaws; and his highly publicized capture, trial, escape, and end fixed his image in the public mind for all time. He was only twenty-one years old when a bullet from Sheriff Pat Garrett's six-shooter killed him on July 14, 1881. Within a year Billy the Kid became the subject of five dime-novel "biographies" as well as Garrett's ghost-written account, and that was just the beginning. Robert M. Utley does what countless books, movies, television shows, musical compositions, and paintings have failed to do: he successfully strips off the veneer of legendry to expose the reality of Billy the Kid. Using previously untapped sources, he presents an engrossing story—the most complete and accurate ever—of a youthful hoodlum and sometime killer who found his calling in New Mexico's bloody power struggle known as the Lincoln County War. In unmasking the legend Utley also tells us much about our heritage of frontier vigilantism and violence. Issues include special section called Corrosion abstracts. Corrosion control in the aerospace industry has always been important, but is becoming more so with the ageing of the aircraft fleet. Corrosion control in the aerospace industry provides a comprehensive review of the subject with real-world perspectives and approaches to corrosion control and prevention. Part one discusses the fundamentals of corrosion and the cost of corrosion with chapters on such topics as corrosion and the threat to aircraft structural integrity and the effect of corrosion on aluminium alloys. Part two then reviews corrosion monitoring, evaluation and prediction including non-destructive evaluation of corrosion, integrated health and corrosion monitoring systems, modelling of corrosion and fatigue on aircraft structures and corrosion control in space launch vehicles. Finally, Part three covers corrosion protection and prevention, including chapters which discuss coating removal techniques, novel corrosion schemes, greases and their role in corrosion control and business strategies in fleet maintenance. With its distinguished editor and team of expert contributors, Corrosion control in the aerospace industry is a standard reference for everyone involved in the maintenance and daily operation of aircraft, as well as those concerned with aircraft safety, designers of aircraft, materials scientists and corrosion experts. Discusses the fundamentals of corrosion and the cost of corrosion to the aerospace industry Examines the threat corrosion poses to aircraft structural integrity and the effect of corrosion on the mechanical behaviour of aircraft Reviews methods for corrosion monitoring, evaluation and prediction examining both current practices and future trends CORROSION POLICY DECISION MAKING Explore the science, management, economy, ecology, and engineering of corrosion management and prevention In Corrosion Policy Decision Making, distinguished consultant and corrosion expert Dr. Reza Javaherdashti delivers an insightful overview of the fundamental principles of corrosion with a strong focus on the applicability of corrosion theory to industrial practice. The authors demonstrate various aspects of smart corrosion management and persuasively make the case that there is a real difference between corrosion management and corrosion knowledge management. The book contains seven chapters that each focuses on one important aspect of corrosion and corrosion management. Corrosion management is an issue that is not just corrosion science or corrosion engineering but rather a combination of both elements. To cover this paradoxical aspect of corrosion management, chapter 2 deals with some basic, introductory concepts and principles of corrosion and coating/painting (an important corrosion protection method) while chapter 3 explains the elements of smart corrosion management in detail. Another important principle of smart corrosion management is to be able to study the cost of corrosion, chapter 4 introduces important points in the economics involved in a smart corrosion management. As indicated earlier, corrosion engineering is also an integral part of corrosion management and thus chapter 5 looks at the engineering side of corrosion by detailing the example of Process Additives (EMPA). Chapter 6 for the first time looks at the possibility of using TRIZ (algorithm of invention) in corrosion management. Finally, chapter 7 presents the necessary elements for building a model that would explore the mutual interaction between corrosion and environment mainly by exploring the difference between environmental impact and environmental effect. Chapter 7 is also very important because the four models so far applied to estimate the cost of corrosion (Uhlig Method, Hoar Method, I/O method and LCC method) are not capable of suggesting any clear model or a sensible way of exploring the elements necessary to explain the impact of indirect costs of corrosion the most important of which being environmental damages imposed by corrosion. This book is ideal for engineers, students, and managers working or studying corrosion, Corrosion Policy Decision Making is also an indispensable resource for professionals in the fields of upstream and downstream, on-shore/off-shore oil and gas, transportation, mining, power generation as well as major sectors of other strategic industries. The U.S. industrial complex and its associated infrastructure are essential to the nation's quality of life, its industrial productivity, international competitiveness, and security. Each component of the infrastructure—such as highways, airports, water supply, waste treatment, energy supply, and power generation—represents a complex system requiring significant investment. Within that infrastructure both the private and government sectors have equipment and facilities that are subject to degradation by corrosion, which significantly reduces the lifetime, reliability, and functionality of structures and equipment, while also threatening human safety. The direct costs of corrosion to the U.S. economy represent 3.2 percent of the gross domestic product (GDP), and the total costs to society can be twice that or greater. Opportunities for savings through improved corrosion control exist in every economic sector. The workshop, Corrosion Education for the 21st Century, brought together corrosion specialists, leaders in materials and engineering education, government officials, and other interested parties. The workshop was also attended by members of NRC's Committee on Assessing Corrosion Education, who are carrying out a study on this topic. The workshop panelists and speakers were asked to give their personal perspectives on whether corrosion abatement is adequately addressed in our nation's engineering curricula and, if not, what issues need to be addressed to develop a comprehensive corrosion curriculum in undergraduate engineering. This proceedings consists of extended abstracts from the workshop's speakers that reflect their personal views as presented to the meeting. Proceedings of the Materials Forum 2007: Corrosion Education for the 21st Century summarizes this form. Corrosion Control Through Organic Coatings, Second Edition provides readers with useful knowledge of the practical aspects of corrosion protection with organic coatings and links this to ongoing research and development. Thoroughly updated and reorganized to reflect the latest advances, this new edition expands its coverage with new chapters on coating degradation, protective properties, coatings for submerged service, powder coatings, and chemical pretreatment. Maintaining its authoritative treatment of the subject, the book reviews such topics as corrosion-protective pigments, waterborne coatings, weathering, aging, and degradation of paint, and environmental impact of commonly used techniques including dry- and wet-abrasive blasting and hydrojetting. It also discusses theory and practice of accelerated testing of coatings to assist readers in developing more accurate tests and determine corrosion protection performance. Challenges and Recent Advances in Sustainable Oil and Gas Recovery and Transportation delivers a critical tool for today's petroleum and reservoir engineers to learn the latest research in EOR and solutions toward more SDG-supported practices. Packed with methods and case studies, the reference starts with the latest advances such as EOR with polymers and EOR with CCS. Advances in shale recovery and methane production are also covered before layering on sustainability methods on critical topics such as oilfield produced water. Supported by a diverse group of contributors, this book gives engineers a go-to source for the future of oil and gas. The oil and gas industry are utilizing enhanced oil recovery (EOR) methods frequently, but the industry is also tasked with making more sustainable decisions in their future operations. Provides the latest advances in enhanced oil recovery (EOR), including EOR with polymers, EOR with carbon capture and sequestration (CCS), and hybrid EOR approaches Teaches options in recovery and transport, such as shale recovery and methane production from gas hydrate reservoirs Includes sustainability methods such as biological souring and oil field produced water solutions Trends in Oil and Gas Corrosion Research and Technologies: Production and Transmission delivers the most up-to-date and highly multidisciplinary reference available to identify emerging developments, fundamental mechanisms and the technologies necessary in one unified source. Starting with a brief explanation on corrosion management that also addresses today's most challenging issues for oil and gas production and transmission operations, the book dives into the latest advances in microbiology-influenced corrosion and other corrosion threats, such as stress corrosion cracking and hydrogen damage just to name a few. In addition, it covers testing and monitoring techniques, such as molecular microbiology and online monitoring for surface and subsurface facilities, mitigation tools, including coatings, nano-packaged biocides, modeling and prediction, cathodic protection and new steels and non-metallics. Rounding out with an extensive glossary and list of abbreviations, the book equips upstream and midstream corrosion professionals in the oil and gas industry with the most advanced

collection of topics and solutions to responsibly help solve today's oil and gas corrosion challenges. Covers the latest in corrosion mitigation techniques, such as corrosion inhibitors, biocides, non-metallics, coatings, and modeling and prediction Solves knowledge gaps with the most current technology and discoveries on specific corrosion mechanisms, highlighting where future research and industry efforts should be concentrated Achieves practical and balanced understanding with a full spectrum of subjects presented from multiple academic and world-renowned contributors in the industry

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