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Roberto Tomás, Miguel Cano, Adrián Riquelme, José Luis Pastor, David Benavente, Salvador Ordóñez

Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments Andreas

Momber, 2024-04-06 Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments: Volume 1: Introduction and Corrosive Loads offers the first comprehensive review on corrosion and corrosion protection of offshore wind power structures. The book provides extensive discussion on corrosion phenomena and types in different marine corrosion zones, including the modeling of corrosion processes and interactions between corrosion and structural stability. The book addresses important design issues, namely materials selection relative to performance in marine environments, corrosion allowance, and constructive design. Active and passive corrosion protection measures are emphasized, with special sections on cathodic corrosion protection and the use of protective coatings. Seawater related issues associated with cathodic protection, such as calcareous deposit formation, hydrogen formation and fouling, are discussed. With respect to protective coatings, the book considers for the first time complete loading scenarios, including corrosive loads, mechanical loads, and special loads, and covers a wide range of coating materials. Problems associated with fouling and bacterialinduced corrosion are extensively reviewed. The book closes with a chapter on recent developments in maintenance strategies, inspection techniques, and repair technologies. The book is of special interest to materials scientists, materials developers, corrosion engineers, maintenance engineers, civil engineers, steel work designers, mechanical engineers, marine engineers. Offshore wind power is an emerging renewable technology and a key factor for a cleaner environment. Offshore wind power structures are situated in a demanding and challenging marine environment. The structures are loaded in a complex way, including mechanical loads and corrosive loads. Corrosion is one of the major limiting factors to the reliability and performance of the technology. Maintenance and repair of corrosion protection systems are particularly laborious and costly. - Explores the literature between 1950 and 2020 and contains over 2000 references - Offers the most complete monograph on the issue - Covers all aspects of corrosion protection in detail, including coatings, cathodic protection, corrosion allowance, and constructive design, as well as maintenance and repair - Delivers the most complete review on corrosion of metals in marine/offshore environments - Focuses on all aspects of offshore wind power structures, including

foundations, towers, internal sections, connection flanges, and transformation platforms

Grounds for Grounding Elya B. Joffe, Kai-Sang Lock, 2023-02-01 GROUNDS FOR GROUNDING Gain a comprehensive understanding of all aspects of grounding theory and application in this new, expanded edition Grounding design and installation are crucial to ensure the safety and performance of any electrical or electronic system irrespective of size. Successful grounding design requires a thorough familiarity with theory combined with practical experience with real-world systems. Rarely taught in schools due to its complexity, identifying and implementing the appropriate solution to grounding problems is nevertheless a vital skill in the industrial world for any electrical engineer. In Grounds for Grounding, readers will discover a complete and thorough approach to the topic that blends theory and practice to demonstrate that a few rules apply to many applications. The book provides basic concepts of Electromagnetic Compatibility (EMC) that act as the foundation for understanding grounding theory and its applications. Each avenue of grounding is covered in its own chapter, topics from safety aspects in facilities, lightning, and NEMP to printed circuit board, cable shields, and enclosure grounding, and more. Grounds for Grounding readers will also find: Revised and updated information presented in every chapter New chapters on grounding for generators, uninterruptible power sources (UPSs) New appendices including a grounding design checklist, grounding documentation content, and grounding verification procedures Grounds for Grounding is a useful reference for engineers in circuit design, equipment, and systems, as well as power engineers, platform, and facility designers.

Corrosion Engineering Branko N. Popov,2024-11-19 Corrosion Engineering: Principles and Solved Problems, Second Edition gives a comprehensive overview and introduction to the field through an extensive, theoretical description of the principles of corrosion theory, passivity and corrosion prevention strategies, and design of corrosion protection systems. The second edition has been thoroughly updated with new knowledge and includes solved corrosion case studies, corrosion analysis and solved corrosion problems to help the reader to understand the corrosion fundamental principles from thermodynamics and electrochemical kinetics, the mechanism that triggers the corrosion processes at the metal interface and how to control or inhibit the corrosion rates. A key goal of the updated book is to help the next generation of engineers and scientists: (i) understand the theory of hydrogen embrittlement and stress corrosion cracking as well as hydrogen damage prevention strategies, (ii) design models for developing hydrogen damage-resistant alloys, and (iii) prevent damage of different industrial components due to the presence and localization of hydrogen in metals. To accomplish these objectives, the book offers case studies of hydrogen permeation, hydrogen embrittlement, mechanical properties of alloys, and hydrogen damage control. - Addresses corrosion theory, passivity, material selections, and designs - Includes extensive coverage of corrosion engineering protection strategies - Contains over 500 solved problems, diagrams, case studies, and end-of-chapter exercises - Suitable for advanced/graduate corrosion courses, and as a self-study reference for corrosion

engineers

Expert Knowledge-based Inspection Systems Jorge de Brito, Clara Pereira, José D. Silvestre, Inês Flores-Colen, 2020-05-19 This book provides a novel approach to building pathology in current buildings. Drawing on the available literature, hands-on experience and fieldwork inspections, it presents a systematic perspective on the pathology of the building envelope. The book addresses natural stone claddings, adhesive ceramic tiling, renders, painted surfaces, External Thermal Insulation Composite Systems (ETICS), architectural concrete surfaces, windows and doors framing, and claddings for pitched and flat roofs. In addition to highlighting selected materials and construction elements, the book proposes a global classification system for defects and their probable causes, together with in situ diagnosis methods and repair techniques. It also identifies the relationships between defects and causes, diagnosis methods and repair techniques, and the interdependence between different defects, presenting these relations in the form of correlation matrices. Support files with detailed information and an inspection form are also provided. Selected case studies are presented to illustrate the value of a guidance system in fieldwork. Given its scope, the book offers a valuable guide, particularly for researchers, building inspectors, civil engineers, architects and maintenance planners.

Proceedings of the International Conference of Sustainable Production and Use of Cement and Concrete Jose Fernando Martirena-Hernandez, Adrian Alujas-Díaz, Meylin Amador-Hernandez, 2019-06-21 This volume gathers the latest advances, innovations and applications presented by leading international researchers and engineers at the International Conference on Sustainable Production and Use of Cement and Concrete (ICSPCC 2019), held in Villa Clara, Cuba on June 23-30, 2019. It covers highly diverse topics, including sustainable production of low-carbon cements, novelties in the development of supplementary cementitious materials, new techniques for the microstructural characterization of construction materials, Portland-based and alkaline-activated cementitious systems, development of additives and additions in the sustainable production of concrete, sustainable production of high-performance concrete, durable concrete produced with recycled aggregates, development of mortars for historical patrimony restoration, environmental and economic assessment of the production and use of cement. The contributions, which were selected by means of a rigorous, international peer-review process, highlight numerous exciting ideas that will inspire novel research directions and foster multidisciplinary collaboration between different specialists.

<u>Techniques for Protecting Overhead Lines in Winter Conditions</u> Masoud Farzaneh, William A. Chisholm, 2022-02-10 This book offers a comprehensive review of the various options for improving the performance of overhead power lines in winter conditions, taking into account both mechanical and electrical aspects. Experience within the CIGRE community reveals many strategies to protect overhead power lines from damage caused by heavy build-up of ice and snow or electrical issues such as insulator icing flashovers. The initial approach is to consider the predicted ice loads from the available databases.

This is supplemented with some fundamental aspects of icing physics that affect accretion rate as well as factors in ice shedding on traditional (metal, ceramic) and novel treated surfaces. These ice physics concepts structure the ways to categorize and evaluate methods to reduce or prevent icing on conductors and ground wires or to prevent flashover of insulators. Many utilities in cold climate regions have developed and used methods and strategies to reduce ice loads using anti-icing (AI) and / or de-icing (DI) methods. In general, AI methods are used before or early during ice build-up, while DI methods are activated during and sometimes after ice build-up. The book describes and discusses some historical, operational, or potential AI / DI systems in the ice physics context. This supports a comprehensive review of AI coatings including concepts, relevant material properties, application methods, and finally test methods for characterizing the long-term performance.

Corrosion and Conservation of Cultural Heritage Metallic Artefacts P Dillmann,D Watkinson,E Angelini,A Adriaens,2013-07-31 The conservation of metallic archaeological and historic artefacts is a major challenge whether they are ancient bronzes or relics of our more recent industrial past. Based on the work of Working Party 21 Corrosion of Archaeological and Historical Artefacts within the European Federation of Corrosion (EFC), this important book summarises key recent research on analytical techniques, understanding corrosion processes and preventing the corrosion of cultural heritage metallic artefacts. After an introductory part on some of the key issues in this area, part two reviews the range of analytical techniques for measuring and analysing corrosion processes, including time resolved spectroelectrochemistry, voltammetry and laser induced breakdown spectroscopy. Part three reviews different types of corrosion processes for a range of artefacts, whilst part four discusses on-site monitoring techniques. The final part of the book summaries a range of conservation techniques and strategies to conserve cultural heritage metallic artefacts. Corrosion and conservation of cultural heritage metallic artefacts is an important reference for all those involved in archaeology and conservation, including governments, museums as well as those undertaking research in archaeology and corrosion science. - Summarises key research on analytical techniques for measuring and analysing corrosion processes - Provides detailed understanding of corrosion processes and corrosion prevention - Discusses on-site monitoring techniques

Microclimate for Cultural Heritage Dario Camuffo,2019-06-25 Microclimate for Cultural Heritage: Measurement, Risk Assessment, Conservation, Restoration, and Maintenance of Indoor and Outdoor Monuments, Third Edition, presents the latest on microclimates, environmental issues and the conservation of cultural heritage. It is a useful treatise on microphysics, acting as a practical handbook for conservators and specialists in physics, chemistry, architecture, engineering, geology and biology who focus on environmental issues and the conservation of works of art. It fills a gap between the application of atmospheric sciences, like the thermodynamic processes of clouds and dynamics of planetary boundary layer, and their application to a monument surface or a room within a museum. Sections covers applied theory,

environmental issues and conservation, practical utilization, along with suggestions, examples, common issues and errors. - Connects theory to practice with clear illustrations, useful examples, and case studies - Covers practical issues, e.g. rising damp, moulds, and pests, indoor heating, thermal comfort, green lighting technology, performing field surveys - Presents the latest standards for measuring cultural assets and their environment - Discusses climate change and indoor - outdoor potential scenarios, including sea-level rise

Atmospheric Corrosion Christofer Leygraf, Inger Odnevall Wallinder, Johan Tidblad, Thomas Graedel, 2016-06-07 ATMOSPHERIC CORROSION Presents a comprehensive look at atmospheric corrosion, combining expertise in corrosion science and atmospheric chemistry Atmospheric corrosion has been a subject of engineering study, largely empirical, for nearly a century. Scientists came to the field rather later on and had considerable difficulty bringing their arsenal of tools to bear on the problem. Atmospheric corrosion was traditionally studied by specialists in corrosion having little knowledge of atmospheric chemistry, history, or prospects. Atmospheric Corrosion provides a combined approach bringing together experimental corrosion and atmospheric chemistry. The second edition expands on this approach by including environmental aspects of corrosion, atmospheric corrosion modeling, and international corrosion exposure programs. The combination of specialties provides a more comprehensive coverage of the topic. These scientific insights into the corrosion process and its amelioration are the focus of this book. Key topics include the following: Basic principles of atmospheric corrosion chemistry Corrosion mechanisms in controlled and uncontrolled environments Degradation of materials in architectural, transport, and structural applications; electronic devices; and cultural artifacts Protection of existing materials and choosing new ones that resist corrosion Prediction of how and where atmospheric corrosion may evolve in the future Complete with appendices discussing experimental techniques, computer models, and the degradation of specific metals, Atmospheric Corrosion, Second Edition continues to be an invaluable resource for corrosion scientists, corrosion engineers, conservators, environmental scientists, and anyone interested in the theory and application of this evolving field. The book concerns primarily the atmospheric corrosion of metals and is written at a level suitable for advanced undergraduates or beginning graduate students in any of the physical or engineering sciences.

Bridge Design, Assessment and Monitoring Airong Chen, Dan M. Frangopol, Xin Ruan, 2018-12-07 Bridges play important role in modern infrastructural system. This book provides an up-to-date overview of the field of bridge engineering, as well as the recent significant contributions to the process of making rational decisions in bridge design, assessment and monitoring and resources optimization deployment for the purpose of enhancing the welfare of society. Tang specifies the purposes and requirements of the conceptual bridge design, considering bridge types, basic elements, structural systems and load conditions. Cremona and Poulin propose an assessment procedure for existing bridges. Kallias et al. develop a framework for the performance assessment of metallic bridges under atmospheric exposure by integrating coating deterioration and

corrosion modelling. Soriano et al. employ a simplified approach to estimate the maximum traffic load effect on a highway bridge and compare the results with other approaches based on on-site weigh-in-motion data. Akiyama et al. propose a method for reliability-based durability design and service life assessment of reinforced concrete deck slab of jetty structures. Chen et al. propose a meso-scale model to simulate the uniform and pitting corrosion of rebar in concrete and to obtain the crack patterns of the concrete with different rebar arrangements. Ruan et al. present a traffic load model for long span multipylon cable- stayed bridges. Khuc and Catbas implement a non-target vision- based method for the measurement of both static and dynamic displacements time histories. Finally, Cruz presents the career of the outstanding bridge engineer Edgar Cardoso in the fields of bridge design and experimental analysis. The book serves as a valuable reference to all concerned with bridge structure and infrastructure systems, including students, researchers, engineers, consultants and contractors from all areas sections of bridge engineering. The chapters originally published as a special issue in Structure and Infrastructure Engineering.

The Effect of the Environment on Saint Petersburg's Cultural Heritage Olga V. Frank-Kamenetskaya, Dmitry Yu. Vlasov, Vera V. Rytikova, 2018-10-06 This book addresses the effects of the environment on Saint Petersburg's cultural heritage. It summarizes the results of long-term, large-scale monitoring of monuments in, and the environment (air, soil, vegetation) of, the historical Saint Petersburg Necropolis. The book offers detailed descriptions of the unique collection of decorative stones in the Necropolis and discusses the deposits that were most likely used to create them. In addition, it characterizes the processes of stone and bronze monuments' degradation in response to physical, chemical and biogenic influences. Special attention is paid to describing the monitoring methodology and the structure of the monitoring information database. Drawing on the methodologies and cases presented here, the book subsequently puts forward a strategy for the conservation and restoration of these unique monuments. This book approaches practical questions of monuments preservation that will be of interest to museum staff, restorers and experts in various fields (geologists, biologists, chemists, engineers, etc.) whose work involves problems of cultural heritage preservation. The book is interesting for everyone who is not indifferent to the history and preserving of the world culture.

Proceedings of the 2nd International Conference on Building Innovations Volodymyr Onyshchenko, Gulchohra Mammadova, Svitlana Sivitska, Akif Gasimov, 2020-06-13 This book gathers the latest advances, innovations, and applications in the field of building design and construction, by focusing on new design solutions for buildings and new technologies creation for construction, as presented by researchers and engineers at the 2nd International Conference Building Innovations (ICBI), held in Poltava – Baku, Ukraine – Azerbaijan, on May 23-24, 2019. It covers highly diverse topics, including structures operation, repairing and thermal modernization in existing buildings and urban planning features, machines and mechanisms for construction, as well as efficient economy and energy conservation issues in construction. The

contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Current Perspectives and New Directions in Mechanics, Modelling and Design of Structural Systems Alphose Zingoni,2022-09-02 Current Perspectives and New Directions in Mechanics, Modelling and Design of Structural Systems comprises 330 papers that were presented at the Eighth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2022, Cape Town, South Africa, 5-7 September 2022). The topics featured may be clustered into six broad categories that span the themes of mechanics, modelling and engineering design: (i) mechanics of materials (elasticity, plasticity, porous media, fracture, fatigue, damage, delamination, viscosity, creep, shrinkage, etc); (ii) mechanics of structures (dynamics, vibration, seismic response, soil-structure interaction, fluid-structure interaction, response to blast and impact, response to fire, structural stability, buckling, collapse behaviour); (iii) numerical modelling and experimental testing (numerical methods, simulation techniques, multi-scale modelling, computational modelling, laboratory testing, field testing, experimental measurements); (iv) design in traditional engineering materials (steel, concrete, steel-concrete composite, aluminium, masonry, timber); (v) innovative concepts, sustainable engineering and special structures (nanostructures, adaptive structures, smart structures, composite structures, glass structures, bio-inspired structures, shells, membranes, space structures, lightweight structures, etc); (vi) the engineering process and life-cycle considerations (conceptualisation, planning, analysis, design, optimization, construction, assembly, manufacture, maintenance, monitoring, assessment, repair, strengthening, retrofitting, decommissioning). Two versions of the papers are available: full papers of length 6 pages are included in the e-book, while short papers of length 2 pages, intended to be concise but self-contained summaries of the full papers, are in the printed book. This work will be of interest to civil, structural, mechanical, marine and aerospace engineers, as well as planners and architects.

New Challenges in Rock Mechanics and Rock Engineering Roberto Tomás, Miguel Cano, Adrián Riquelme, José Luis Pastor, David Benavente, Salvador Ordóñez, 2024-07-29 New Challenges in Rock Mechanics and Rock Engineering includes the contributions presented at the ISRM European Rock Mechanics Symposium Eurock 2024 (Alicante, Spain, 15-19 July 2024), and explores cutting-edge advancements in rock mechanics and rock engineering. This comprehensive compilation covers various aspects of rock mechanics and rock engineering, including: rock properties, testing methods, infrastructure and mining rock mechanics, design analysis, stone heritage preservation, geophysics, numerical modeling, monitoring techniques, underground excavation support, risk assessment, and the application of EUROCODE-7 in rock engineering. Furthermore, it addresses areas like geomechanics for the oil and gas industry, applications of artificial intelligence, remote sensing methodologies and geothermal technology. New Challenges in Rock Mechanics and Rock Engineering covers the latest breakthroughs and tackles the new challenges in rock mechanics and rock engineering, is aimed at scientists and

professionals in these fields, and serves as an essential resource for keeping up to date with industry trends and solutions.

Information Technology in Geo-Engineering António Gomes Correia, Joaquim Tinoco, Paulo Cortez, Luís Lamas, 2019-09-24 These proceedings address the latest developments in information communication and technologies for geo-engineering. The 3rd International Conference on Information Technology in Geo-Engineering (ICITG 2019), held in Guimarães, Portugal, follows the previous successful installments of this conference series in Durham (2014) and Shanghai (2010). The respective chapters cover the following: Use of information and communications technologies Big data and databases Data mining and data science Imaging technologies Building information modelling applied to geo-structures Artificial intelligence Smart geomaterials and intelligent construction Sensors and monitoring Asset management Case studies on design, construction and maintenance Given its broad range of coverage, the book will benefit students, educators, researchers and professional practitioners alike, encouraging these readers to help take the geo-engineering community into the digital age

Production, Properties, and Applications of High Temperature Coatings Pakseresht, Amir Hossein, 2018-01-12 Heat resistant layers are meant to withstand high temperatures while also protecting against all types of corrosion and oxidation. Therefore, the micro-structure and behavior of such layers is essential in understanding the functionality of these materials in order to make improvements. Production, Properties, and Applications of High Temperature Coatings is a critical academic publication which examines the methods of creation, characteristics, and behavior of materials used in heat resistant layers. Featuring coverage on a wide range of topics such as, thermal spray methods, sol-gel coatings, and surface nanoengineering, this book is geared toward students, academicians, engineers, and researchers seeking relevant research on the methodology and materials for producing effective heat resistant layers.

Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking Raman Singh, Baldev Raj, U. Kamachi Mudali, Prabhakar Singh, 2019-04-09 A comprehensive text to the non-destructive evaluation of degradation of materials due to environment that takes an interdisciplinary approach Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking is an important resource that covers the critical interdisciplinary topic of non-destructive evaluation of degradation of materials due to environment. The authors—noted experts in the field—offer an overview of the wide-variety of approaches to non-destructive evaluation and various types of corrosion. The text is filled with instructive case studies from a range of industries including aerospace, energy, defense, and processing. The authors review the most common non-destructive evaluation techniques that are applied in both research and industry in order to evaluate the properties and more importantly degradation of materials components or systems without causing damage. Ultrasonic, radiographic, thermographic, electromagnetic, and optical are some of the methods explored in the book. This important text: Offers a groundbreaking interdisciplinary approach to of non-destructive evaluation of corrosion and corrosion-assisted cracking

Discusses techniques for non-destructive evaluation and various types of corrosion Includes information on the application of a variety of techniques as well as specific case studies Contains information targeting industries such as aerospace, energy, processing Presents information from leading researchers and technologists in both non-destructive evaluation and corrosion Written for life assessment and maintenance personnel involved in quality control, failure analysis, and R&D, Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking is an essential interdisciplinary guide to the topic.

The Performance of Concentrated Solar Power (CSP) Systems Peter Heller, 2017-05-15 The Performance of Concentrated Solar Power (CSP) Systems: Analysis, Measurement, and Assessment offers a unique overview of the information on the state-of-the-art of analysis, measurement, and assessment of the performance of concentrated solar power (CSP) components and systems in a comprehensive, compact, and complete manner. Following an introductory chapter to CSP systems and the fundamental principles of performance assessment, individual chapters explore the component performance of mirrors and receivers. Further expert-written chapters look at system performance assessment, durability testing, and solar resource forecasting for CSP systems. A final chapter gives an outlook on the actual methods and instruments for performance and durability assessment that are underdevelopment. The Performance of Concentrated Solar Power (CSP) Systems: Analysis, Measurement, and Assessment is an essential reference text for research and development professionals and engineers working on concentrated solar power systems, as well as for postgraduate students studying CSP. - Presents a unique, single literature source for a complete overview of the performance assessment tools and methods currently used for concentrated solar power (CSP) technology - Written by a team of experts in the field of CSP - Provides information on the state-of-the-art of modeling, measurement, and assessment of the performance of CSP components and systems in a comprehensive, compact, and complete manner

Ageing of Infrastructure Frank Collins,Frédéric Blin,2018-09-21 The book addresses the problem of ageing infrastructure and how ageing can reduce the service life below expected levels. The rate of ageing is affected by the type of construction material, environmental exposure, function of the infrastructure, and loading: each of these factors is considered in the assessment of ageing. How do international design codes address ageing? Predictive models of ageing behaviour are available and the different types (empirical, deterministic, and probabilistic) are discussed in a whole-of-life context. Life cycle plans, initiated at the design stage, can ensure that the design life is met, while optimising the management of the asset: reducing life cycle costs and reducing the environmental footprint due to less maintenance/remediation interventions and fewer unplanned stoppages and delays. Health monitoring of infrastructure can be conducted via implanted probes (wired or wireless) or by non-destructive testing that can routinely measure the durability, loading, and exposure environments at key locations around the facility. Routine monitoring can trigger preventative maintenance that can extend the life of the infrastructure and minimise unplanned and reactive remediation,

while also providing ongoing data that can be utilised towards more durable future construction. Future infrastructure will need to be safe and durable, financially and environmentally sustainable over the lifecycle, thereby raising socio-economic wellbeing. The book concludes by discussing the key impacting factors that will need to be addressed. The author brings a strong academic and industry background to present a resource for academics and practitioners wishing to address the ageing of built infrastructure.

Proceedings of the 63rd Conference of Metallurgists, COM 2024 Metallurgy and Materials Society of CIM,2024-11-18 These Proceedings represent the metallurgical engineering and materials science research presented at the 63rd Annual Conference of Metallurgists (COM 2024), held in Halifax, Nova Scotia, Canada, from August 19 to 22, 2024.. The Annual Conference of Metallurgists is organized by the Metallurgy and Materials Society of the Canadian Institute of Mining, Metallurgy and Petroleum (MetSoc of CIM). The collection themed 'Clean Technologies for a Materials-Intensive Future' presents findings on a wide range of topics, including: Advanced Manufacturing and Materials VII Arsenic/Minor Element Controls in Metallurgical Plants Corrosion and Environmental Degradation of Materials Electrometallurgy for a Net Zero Economy Extractive Metallurgy from Conception to Operation: Experimentation, Simulation, Pilot and Ramp-up 25th International Biohydrometallurgy Symposium (IBS 2024) Joe Ferron Memorial Symposium – Processing of Critical Materials Light Metals for Transportation: Marine, Aviation, and Ground Applications WALSIM X: Water, Air, Land Sustainability Issues in Mining and Metal Extraction

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