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REYNOLDS GARZA

The Mechanics' Magazine and Journal of Engineering, Agricultural Machinery, Manufactures and Shipbuilding Rough Guides UK

Negli ultimi decenni, il clima sull'intero pianeta è rapidamente cambiato. Non si tratta solo di inverni privati della magia della neve alle nostre latitudini: gli effetti sono a 360°. Ma cosa accadrà in futuro? Andrea Giuliacci, studioso di climatologia e volto tv del meteo, prospetta quello che ci attende in ogni ambito "nella peggiore delle ipotesi" ovvero se non faremo nulla per mitigare il riscaldamento globale. Il Polo Nord potrebbe ritrovarsi senza ghiacci (aprendo così nuove rotte di navigazione), mentre alcune specie animali esotiche popoleranno la nostra Penisola e le città, per essere vivibili, dovranno cambiare colore. Il fattore clima sarà determinante anche per le dinamiche geopolitiche (il Pentagono lo reputa più pericoloso del terrorismo internazionale), per l'economia e la finanza, dove si potranno registrare perdite stratosferiche. L'agricoltura dovrà migrare: i vini pregiati potrebbero arrivare dai dintorni di Londra o dalla Scandinavia. Inoltre muteranno i rapporti sociali e i nostri comportamenti: per esempio aumenteranno i crimini violenti e diventerà quasi impossibile praticare sport all'aperto. Insomma, tutto sta per cambiare e succederà soprattutto a causa nostra, perché abbiamo riempito l'atmosfera di sostanze che alterano il clima. Ma in questo è implicita la buona notizia: correggendo i nostri comportamenti, potremo evitare, almeno in parte, gli scenari descritti. Ecco perché, nella parte finale del libro, Giuliacci presenta gli strumenti e le politiche che abbiamo oggi a disposizione per contrastare il cambiamento climatico, e i risultati che possiamo credibilmente attenderci.

Engineering & Building Record and the Sanitary Engineer Routledge

A fundamental natural resource, water and its use not only reflect "modes of production" but also that complex interplay between resources and their exploitation (and domination) by various social agents, who in their turn are inevitably influenced by the abundance or rarity of water supplies. Focusing on scientific, social and economic issues from the 16th to the 19th century, the author, one of Italy's leading historians in this field, looks at the innumerable conflicts that arose over water resources and the environmental impact of projects intended to control them. Venice and Holland are undoubtedly the two most fascinating cases of societies "built on water," with the conquest of vast expanses of marshland - either inland or on the coast (the Dutch polders or the Venetian lagoon) – not only stimulating agricultural production, but also nurturing a deeply-felt relationship between the local populations and the element of water itself. The author rounds off his study by looking at the influence the hydraulic technology developed in Holland would have on many European countries (France, England and Germany in particular) and at questions raised by contemporaries about the environmental impact of agricultural progress and its effects upon the social-economic equilibria within the communities concerned.

The Building News and Engineering Journal Rizzoli

The Rough Guide to Venice & the Veneto, long established as the most thorough and reliable guide to the city and its surroundings, has been completely redesigned and updated for this ninth edition. Unrivaled in its coverage of the Doge's Palace, the Basilica di San Marco and all the other major sights, the Rough Guide also reveals the treasures to be found in the districts that lie off the usual tourist trails - and has plenty of maps to make sure you find them easily. As well as being packed with stories that illuminate the city's history, the Rough Guide tells you more about the city as it is today than any other guidebook, with features on everything from flood-prevention projects to the travails of Venice's football team. It will tell you the best places to stay, eat and drink, in all price ranges, from backwater bars to gourmet restaurants, from homely B&Bs to spectacular Grand Canal hotels. Make the most of your time with The Rough Guide to Venice & the Veneto. Now available in PDF format.

Van Nostrand's Engineering Magazine Elsevier

Coastal Altimetry: Selected Case Studies from Asian Shelf Seas provides information on developments over the past decade in the processing of remotely sensed altimetry in coastal areas, with an overview of expected errors and where they stem from, along with remaining gaps in processing. Challenges covered include the retracking of the altimetric signal to account for land contamination, tropospheric water corrections, and tidal model improvements, along with the pros and cons of widely available products. Additional chapters provide recent research in the regional seas of Asia and cover variability, dynamics, predictability and prediction, impacts of extreme events, effects to ecosystems, and more. This book offers readers a dataset that can illuminate our understanding of the propagation of planetary boundary waves that have a significant sea level signal in near coastal regions. As such, researchers and students who have a foundation in satellite altimetry and want to know the latest development of open ocean and coastal satellite altimetry, especially in Asian coastal regions, will benefit from this book. Presents the advancement of coastal altimetry technologies from various dedicated experts Includes case studies throughout to give real-life examples that can be implemented globally Provides chapters that include summaries of key

points and an outlook to the future

Railway and Engineering Review Taylor & Francis

Venezia è un patrimonio tanto inestimabile quanto fragile. Quando nel novembre 2019 l'acqua alta ha raggiunto i 187 cm sul livello medio del mare, tutto il mondo l'ha vista in pericolo. Successivamente il MoSE, entrando in funzione, ha stabilizzato la situazione, ma questo non significa che non ci si debba preparare a profondi cambiamenti nei prossimi decenni. La realtà di Venezia - città "anfibia" che va considerata insieme alla laguna e al mare che la circondano - è estremamente complessa e va valutata con uno sguardo d'insieme. Questo è il primo saggio che lo fa intrecciando il tema del cambiamento climatico con quelli del turismo di massa e degli effetti della pandemia di COVID-19. Quale futuro allora attende Venezia? La prova più ardua sarà posta dall'innalzamento globale del livello dei mari, per cui vengono prefigurati diversi scenari per i prossimi decenni. Inoltre, di sicuro la città dovrà cambiare in una direzione di sostenibilità sociale, economica e ambientale. Ma non si può parlare di un solo futuro, bensì di diverse opzioni, a seconda delle scelte di politica economica e ambientale che verranno attuate. Scelte sommamente delicate per salvare un tesoro di bellezza, vita e cultura che l'umanità non può perdere.

Engineering News Springer

The transformation of the Venetian glass industry during the Renaissance was not only a technical phenomenon, but also a social one. In this volume, Patrick McCray examines the demand, production and distribution of glass and glassmaking technology during this period and evaluates several key topics, including the nature of Renaissance demand for certain luxury goods, the interaction between industry and government in the Renaissance, and technological change as a social process. McCray places in its broader economic and cultural context a craft and industry that has been traditionally viewed primarily through the surviving artefacts held in museum collections. McCray explores the social and economic context of glassmaking in Venice, from the guild and state level down to the workings of the individual glass house. He tracks the dissemination of Venetian-style glassmaking throughout Europe during the sixteenth and seventeenth centuries and its effects on Venice’s glass industry. Integrating evidence from a wide variety of sources - written documents such as shop records and recipe books, pictorial representations of glass and glassmaking, and the careful physical and chemical analysis of glass pieces that have survived to the present - he examines the relation between consumer demand and technological change. In the process, he traces the organizational changes that signified a transition from an older and more traditional manner of ’artisan’ manufacture to a modern, ’factory-style’ manner of production.

Poroelasticity Back Bay Books

Building codes and standards in other countries are studied in correlation to the number of casualties suffered during a violent storm. Specifically, Bangladesh is offered as a case study of minimum standards of building construction, while Australia is highlighted for having some of the strictest controls in the world. In 1990 and 1991, hurricanes Hugo, Andrew and Iniki pummeled the United States leveling residences, office buildings, a military base, and shopping areas. The devastation had a profound effect on the local communities, industries and commerce. Judging from the destruction these storms caused to the buildings in the area, it is clear that we still have a great deal to learn about designing structures to withstand hurricanes, typhoons and tornadoes. This book, for both the student and practicing architect or engineer, explores wind velocity typical of storms such as these. The weather conditions are then translated into actual forces on a structure to be used to better design buil

Port Engineering: Harbor transportation, fishing ports, sediment transport, geomorphology, inlets, and dredging Rizzoli

"An immersive, mildly gonzo and depressingly well-timed book about the drenching effects of global warming, and a powerful reminder that we can bury our heads in the sand about climate change for only so long before the sand itself disappears." (Jennifer Senior, New York Times) A New York Times Critics' Top Book of 2017One of Washington Post's 50 Notable Works of Nonfiction in 2017One of Booklist's Top 10 Science Books of 2017 What if Atlantis wasn't a myth, but an early precursor to a new age of great flooding? Across the globe, scientists and civilians alike are noticing rapidly rising sea levels, and higher and higher tides pushing more water directly into the places we live, from our most vibrant, historic cities to our last remaining traditional coastal villages. With each crack in the great ice sheets of the Arctic and Antarctica, and each tick upwards of Earth's thermometer, we are moving closer to the brink of broad disaster. By century's end, hundreds of millions of people will be retreating from the world's shores as our coasts become inundated and our landscapes transformed. From island nations to the world's major cities, coastal regions will disappear. Engineering projects to hold back the water are bold and may buy some time. Yet despite international efforts and tireless research, there is no permanent solution-no barriers to erect or walls to build-that will protect us in the end from the drowning of the world as we know it. The Water Will Come is the definitive account of the coming water, why and how this will happen, and what it will all mean. As he travels across twelve countries and reports from the front lines, acclaimed journalist Jeff Goodell employs fact, science, and first-person, on-the-ground journalism to show vivid scenes from what already is becoming a water world.

The Sanitary Record and Journal of Sanitary and Municipal Engineering Elsevier

The city of Venice, Italy, has been subjected to periodic flooding, or acqua alta, for centuries. Venice Shall Rise Again presents a unique proposition to halt this flooding. Based on years of work and experiment, experts Gambolati and Teatini describe an innovative yet technologically simple, economically inexpensive, and environmentally friendly project to raise Venice by 25-30 cm over ten years by injecting seawater into 650-1000 m deep geological formations. This project would be conducted under conditions of absolute safety, stability and integrity conserving the unique artistic and architectural patrimony of this deeply beloved city. Beginning with a brief history of the Venetian Republic, Venice Shall Rise Again addresses the actions undertaken by Venice to protect the city and the lagoon from the sea and land attack for more than a millennium, including the MoSE project, a system of mobile barriers presently under construction. Detailed in its engineering details and ideas, but with enough background information and context to help the interested reader understand the concepts, this book will be of interest to all readers concerned about the fate of Venice. Provides a history of the technical measures taken by the Venetian Republic to preserve the lagoon and the city or Venice Details technical specifications of a new method to secure Venice against periodic flooding

Automotive Engineering Berghahn Books

Venice is sinking - six feet over the past 1,000 years. The reasons for this are many. Although there is a natural geologic tendency for some sinking, humans have exacerbated the problem by exploiting on a massive scale underground water resources for industrial purposes. Coupled with these events - and perhaps most significant - are climatic changes all over the globe. The heating of the atmosphere after the last ice age, dramatically speeded up by humans, has led to a steady, continuing rise in sea level. This global warming is likely to persist beyond human control for hundreds, if not thousands, of years. Venetians, other Italians, and many in the world community are locked in debate over Venice's plight. Venice Against the Sea explains how the city and its 177 canals were built and what has led up to this long-foreseen crisis. It explores the various options currently being considered for "solving" this problem and chronicles the ongoing debate among scientists, engineers, and politicians about the pros and cons of each potential solution. Through extensive research and interviews, award-winning journalist John Keahey has written the definitive book on this fascinating problem. No matter what the experts decide to do, one thing is for certain - Venice's art, its buildings, and its history are too important to the planet's cultural identity to let it slip beneath the rising waters of the Adriatic.

Venice Against the Sea Thomas Dunne Books

This book treats the mechanics of porous materials infiltrated with a fluid (poromechanics), focussing on its linear theory (poroelasticity). Porous materials from inanimate bodies such as sand, soil and rock, living bodies such as plant tissue, animal flesh, or man-made materials can look very different due to their different origins, but as readers will see, the underlying physical principles governing their mechanical behaviors can be the same, making this work relevant not only to engineers but also to scientists across other scientific disciplines. Readers will find discussions of physical phenomena including soil consolidation, land subsidence, slope stability, borehole failure, hydraulic fracturing, water wave and seabed interaction, earthquake aftershock, fluid injection induced seismicity and heat induced pore pressure spalling as well as discussions of seismoelectric and seismoelectromagnetic effects. The work also explores the biomechanics of cartilage, bone and blood vessels. Chapters present theory using an intuitive, phenomenological approach at the bulk continuum level, and a thermodynamics-based variational energy approach at the micromechanical level. The physical mechanisms covered extend from the quasi-static theory of poroelasticity to poroelastodynamics, poroviscoelasticity, porothermoelasticity, and porochemoelasticity. Closed form analytical solutions are derived in details. This book provides an excellent introduction to linear poroelasticity and is especially relevant to those involved in civil engineering, petroleum and reservoir engineering, rock mechanics, hydrology, geophysics, and biomechanics.

Coastal Altimetry

Venice Shall Rise Again

The Railway and Engineering Review

Domestic Engineering and the Journal of Mechanical Contracting

Cyclopædia of Useful Arts, Mechanical and Chemical, Manufactures, Mining, and Engineering

Engineering News and American Contract Journal

The Builder

Building on Water

Cyclopaedia of Useful Arts, Mechanical and Chemical, Manufactures, Mining and Engineering