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A14 - LILIANNA ATKINSON

This book provides detailed information on how to set up Deep Energy Retrofits (DERs) in public buildings, and shares in-depth insights into the current status of the major technologies, strategies and best practice examples of how to cost-effectively combine them. Case studies from the U.S.A. and Europe show that that Deep Energy Retrofit can be achieved with a limited core technologies bundle readily available on the market. Characteristics of some of these core technology measures depend on the technologies available on an individual nation’s market, on the minimum requirements of national standards, and on economics (as determined by a life cycle cost analysis). Also, requirements to building envelope-related technologies (e.g., insulation levels, windows, vapor and water barriers, and requirements for building airtightness) depend on specific climate conditions. This Guide provides best practice examples of how to apply these technologies in different construction situations. High levels of energy use reduction using core technology bundles along with improvements in indoor climate and thermal comfort can be only achieved when a Deep Energy Retrofit adopts a quality assurance process. In addition to design, construction, commissioning, and post-occupancy phases of the quality assurance process, the Guide emphasizes the importance of clearly and concisely formulating and documenting the Owner’s goals, expectations, and requirements for the renovated building during development of the statement of work. Another important component of the quality assurance process is a procurement phase, during which bidders’ qualifications, their understanding of the scope of work and its requirements, and their previous experience are analyzed. The building sector holds the potential for tremendous improvements in terms of energy efficiency and reducing carbon emissions, and energy retrofits to the existing building stock represent a significant opportunity in the transition to a low-carbon future. Moreover, investing in highly efficient building materials and systems can replace long-term energy imports, contribute to cost cutting, and create a wealth of new jobs. Yet, while the technologies needed in order to improve energy efficiency are readily available, significant progress has not yet been made, and “best practices” for implementing building technologies and renewable energy sources are still relegated to small “niche” applications. Offering essential information on Deep Energy Retrofits, the book offers a valuable asset for architects, public authorities, project developers, and engineers alike.

Some 600 pipe bomb explosions have occurred annually in the United States during the past several years. How can technology help protect the public from these homemade devices? This book, a response to a Congressional mandate, focuses on ways to improve public safety by preventing bombings involving smokeless or black powders and apprehending the makers of the explosive devices. It examines technologies used for detection of explosive devices before they explode--including the possible addition of marking agents to the powders--and technologies used in criminal investigations for identification of these powders--including the possible addition of taggants to the powders--in the context of current technical capabilities. The book offers general conclusions and recommendations about the detection of devices containing smokeless and black powders and the feasibility of identifying makers of the devices from recovered powder or residue. It also makes specific recommendations about marking and tagging technologies. This volume follows the work reported in Containing the Threat from Illegal Bombings (NRC 1998), which studied similar issues for bombings that utilize high explosives.

Protein–protein interactions (PPI) are at the heart of the majority of cellular processes, and are frequently dysregulated or usurped in disease. Given this central role, the inhibition of PPIs has been of significant interest as a means of treating a wide variety of diseases. However, there are inherent challenges in developing molecules capable of disrupting the relatively featureless and large interfacial areas involved. Despite this, there have been a number of successes in this field in recent years using both traditional drug discovery approaches and innovative, interdisciplinary strategies using novel chemical scaffolds. This book comprehensively covers the various aspects of PPI inhibition, encompassing small molecules, peptidomimetics, cyclic peptides, stapled peptides and macrocycles. Illustrated throughout with successful case studies, this book provides a holistic, cutting-edge view of the subject area and is ideal for chemical biologists and medicinal chemists interested in developing PPI inhibitors.

Reviews costs and benefits of nuclear programs involving Defense Dept and nuclear industries.

The topic of on site diagnostics for historical, monumental and vernacular architecture is characterized by a twofold difficulty, partially due to a sort of hiatus between the scientific community and a professional system. In fact, on one side universities and research centres produce advanced tech-

nologies, methodologies and procedures, but they are not always adequately disseminated among professionals and are sometimes inconsistent with some relevant criteria, such as feasibility and cost-effectiveness. On the other side, professionals, in the field of on site diagnostics for historical architectures, are holding a heritage, made of experiences and practice, which often is not enough shared and sometimes is contrasting with the limited possibilities to evaluate and verify the professional training and certification system, which seems too heterogeneous, if compared to other high scientific and technical professions, as is the case, for example, in medicine or engineering. In this book, the diagnostic experiences are described, though, for logistical reasons, often briefly, following a systematic methodological approach, according to three of the main steps for the knowledge of historical buildings: anamnesis, diagnosis and prognosis, obviously with particular attention to the specifically diagnostic issues (diagnosis), but framed in the preliminary diagnostic plan and interpreted in the light of the performance, prefigured in the preliminary stages and connected to the visual inspection. That is why this book regards not only some experimental, unconventional and innovative diagnostic surveys and diagnostic experiences, carried out on particularly valuable monumental buildings under the historical-architectural point of view, but also ordinary and simple experiences in the field of professional diagnostic practice, where, however, it was possible to apply the methodology and the know-how, acquired and systematized in the performance of the experimental diagnostic surveys, often included in wider scientific research projects. This book is not exclusively addressing the scientific and academic community, but it also pursues the aim of disseminating in the professional system a heritage of rather varied experimental researches and practical experiences, but methodologically oriented toward a culture, which considers the design of diagnostic plans as a regulation criterion for quality control of professionals.

The biotechnology/biopharmaceutical sector has tremendously grown which led to the invention of engineered antibodies such as Antibody Drug Conjugates (ADCs), Bispecific T-cell engager (BITES), Dual Variable Domain (DVD) antibodies, and fusion proteins that are currently being used as therapeutic agents for immunology, oncology and other disease conditions. Regulatory agencies have raised the bar for the development and manufacture of antibody-based products, expecting to see the use of Quality by Design (QbD) elements demonstrating an in-depth understanding of product and process based on sound science. Drug delivery systems have become an increasingly important part of the therapy and most biopharmaceuticals for self-administration are being marketed as combination products. A survey of the market indicates that there is a strong need for a new book that will provide “one stop shopping” for the latest information and knowledge of the scientific and engineering advances made over the last few years in the area of biopharmaceutical product development. The new book entitled Development of Biopharmaceutical Drug Device Products is a reference text for scientists and engineers in the biopharmaceutical industry, academia or regulatory agencies. With insightful chapters from experts in the field, this new book reviews first principles, covers recent technological advancements and provides case studies and regulatory strategies relating to the development and manufacture of antibody-based products. It covers topics such as the importance of early preformulation studies during drug discovery to influence molecular selection for development, formulation strategies for new modalities, and the analytical techniques used to characterize them. It also addresses important considerations for later stage development such as the development of robust formulations and processes, including process engineering and modeling of manufacturing unit operations, the design of analytical comparability studies, and characterization of primary containers (pre-filled syringes and vials).Finally, the latter half of the book reviews key considerations to ensure the development and approval of a patient-centered delivery system design. This involves the evolving regulatory framework with perspectives from both the US and EU industry experts, the role of international standards, design control/risk management, human factors and its importance in the product development and regulatory approval process, as well as review of the risk-based approach to bridging between devices used in clinical trials and the to-be-marketed device. Finally, case studies are provided throughout.The typical readership would have biology and/or engineering degrees and would include researchers, scientific leaders, industry specialists and technology developers working in the biopharmaceutical field.

The conservation of cultural heritage is a major commitment for all countries around the world, since it is a complex task and a matter of great responsibility. Amongst other sectors of society, science has a contribution to make to heritage preservation. This book is the result of the international conference Heritage, Weathering and Conservation (HWC2006), held in Madrid, Spain, in 2006. It brought together prominent scientists and professionals from a variety of disciplines who have been active in the field and have raised the profile of heritage preservation. The main aspects addressed at this conference were those related to the causes of decay of cultural materials (stone, ceramics, metals, paintings, mortars, timber, adobes, etc); the characterization of their properties and the assessment of analytical techniques for their study, with a focus on non-destructive techniques. Many of the studies stress the importance of salt crystallization, atmospheric pollution and biodeterioration and relate these specific factors to decay. A variety of case studies are included, as well as an examination of policies and management. This book will be useful to professionals and scientists working in a variety of fields related to heritage: geologists, geographers, chemists, physicists, biologists, architects, engineers, restorers, historians, archaeologists, policy makers and the general public.

Annotation All of the presentations and the papers in this publication address ways to improve the performance of exterior building walls, or ways to identify, understand, and avoid the factors leading to failures in the future.

Some vols. include supplemental journals of "such proceedings of the sessions, as, during the time they were depending, were ordered to be kept secret, and respecting which the injunction of secrecy was afterwards taken off by the order of the House".

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The only illustrated dictionary to include construction, design, and related-business terminology, with more photos and detailed drawings than any other book on the shelf With a straightforward A-Z organization, and more photos, drawings, and diagrams than any other illustrated dictionary, this dictionary will be a mainstay on the shelves of anyone involved in the building industry. The wide range of topics makes it the only single volume reference to cover all aspects of design, construction, and related business terminology. A sampling of the categories includes:• Project management• Construction

process and management• Design-Build• Eco-design and green building• Marketing and presentationNo other illustrated construction dictionary covers design, the coordination between the entire design and project delivery process, and the business aspects of the building industry. In addition, it includes more photos, detailed drawings, and diagrams than any other book on the shelf.

Edwin Eckel's exceptionally detailed volume, published in 1928, presents a wealth of information drawing on his own research as well as the work of all the eminent international authorities in the field of lime mortars and cements. It captures the fascinating development of building materials from the nineteenth century through the first quarter of the twentieth century. Of particular interest is the way in which it chronicles the demise of hydraulic cement, followed by the brief meteoric rise in popularity of natural cements, then subsequently their rapid eclipse by Portland cement. This book will be an invaluable resource not only to everyone involved in conservation of traditional buildings but also those concerned with the early modern buildings constructed from Portland cement. The detailed contents and new introductions by Paul Livesey (UK) and William G. Hime (US) can be viewed on the website.

This book features 20 SAE technical papers, originally published in 2009 and 2010, which showcase how the mobility industry is developing greener products and staying responsive - if not ahead of - new standards and legal requirements. These papers were selected by SAE International's 2010 President Dr. Andrew Brown Jr., Executive Director and Chief Technologist for Delphi Corporation. Authored by international experts from both industry and academia, they cover a wide range of cutting-edge subjects including powertrain electrification, alternative fuels, new emissions standards and remediation strategies, nanotechnology, sustainability, in-vehicle networking, and how various countries are also stepping up to the "green challenge". Green Technologies and the Mobility Industry also offers additional useful information: the most recent Delphi Worldwide Emissions Standards booklets, which will be shipped with the print version of this title, or as part of the PDF download, if you purchase the ebook version. Exclusive Multimedia Package Watch Dr. Andrew Brown, Jr. describe the new trends in green mobility. Download a free SAE presentation on green technologies and the mobility industry. Challenging times: an interview with Dr. Andrew Brown, Jr. Buy the Set and Save! This book is the first in the trilogy from SAE on "Safe, Green and Connected" vehicles in the mobility industry edited by Dr. Andrew Brown, Jr. This trilogy can be purchased in a combination of the following sets: Green Technologies and Active Safety in the Mobility Industry Green Technologies and Connectivity in the Mobility Industry Active Safety and Connectivity in the Mobility Industry Buy the Entire 3 Volume Set to Save the Most! Green, Safe & Connected: The Future of Mobility

Stressing strategic and technological solutions to medicinal chemistry challenges, this book presents methods and practices for optimizing the chemical aspects of drug discovery. Chapters discuss benefits, challenges, case studies, and industry perspectives for improving drug discovery programs with respect to quality and costs. • Focuses on small molecules and their critical role in medicinal chemistry, reviewing chemical and economic advantages, challenges, and trends in the field from industry perspectives • Discusses novel approaches and key topics, like screening collection enhancement, risk sharing, HTS triage, new lead finding approaches, diversity-oriented synthesis, peptidomimetics, natural products, and high throughput medicinal chemistry approaches • Explains how to reduce design-make-test cycle times by integrating medicinal chemistry, physical chemistry, and ADME profiling techniques • Includes descriptive case studies, examples, and applications to illustrate new technologies and provide step-by-step explanations to enable them in a laboratory setting