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Knowledge and Competitive Advantage WIPO

This volume presents a wide-ranging review of the latest developments in concrete technology that have been largely missing from the global conference circuit. It the first major international event under the auspices of the Institute of Concrete Technology (ICT) and is appropriately located in the Middle East at the heart of a construction boom. Themes covered include admixture technology, durability, mix design, special cements and supplementary materials, reinforced concrete and sustainability. The 39 papers provide interesting theory and applicable practice blended with research findings – from the application of 3D printing to performance-based specifications and the role of concrete in the development of Oman – to produce a volume of value to many engineers and technologists.

Founded in 1972, The Institute of Concrete Technology (ICT)'s mission is to preserve and promote concrete technology as a recognised engineering discipline and consolidate the professional status of practising concrete technologists worldwide. It is the concrete sector's professional development body, operating internationally, with some 500 members in more than 30 countries. It is an awarding body for qualifications in concrete technology and a facilitator of continuing professional development (CPD) and networking opportunities. Our partner in this conference, The Military Technical College in Muscat, Oman, was established with the intent of becoming a Center of Excellence in engineering education. Located in one purpose-built, state-of-the-art, well-resourced center, the intent is that MTC will be amongst the world's best in the field of military and applied non-military technological education and training providers in the world.

Principles and Practice of Sustainable Architectural Design John Wiley & Sons

'The editors of this handbook have brought together 58 of the world's greatest environmental systems experts. These professionals have, in 46 specific topic headings, divided into six major sections, provided very insightful information and guidance as to what industrial ecology entails, how it can be implemented, and its benefits . . . a very valuable tool . . . This book provides essential information to mid- and top-level management that can enable industry to make more prudent business decisions regarding the manufacturing of its products.' - Robert John Klancko, Environmental Practice Industrial ecology is coming of age and this superb book brings together leading scholars to present a state-of-the-art overviews of the subject.

Patents Springer Nature

Hot-melt extrusion (HME) - melting a substance and forcing it through an orifice under controlled conditions to form a new material - is an emerging processing technology in the pharmaceutical industry for the preparation of various dosage forms and drug delivery systems, for example granules and sustained release tablets. Hot-Melt Extrusion: Pharmaceutical Applications covers the main instrumentation, operation principles and theoretical background of HME. It then focuses on HME drug delivery systems, dosage forms and clinical studies (including pharmacokinetics and bioavailability) of HME products. Finally, the book includes some recent and novel HME applications, scale-up considerations and regulatory issues. Topics covered include: principles and die design of single screw extrusion twin screw extrusion techniques and practices in the laboratory and on production scale HME developments for the pharmaceutical industry solubility parameters for prediction of

drug/polymer miscibility in HME formulations the influence of plasticizers in HME applications of polymethacrylate polymers in HME HME of ethylcellulose, hypromellose, and polyethylene oxide bioadhesion properties of polymeric films produced by HME taste masking using HME clinical studies, bioavailability and pharmacokinetics of HME products injection moulding and HME processing for pharmaceutical materials laminar dispersive & distributive mixing with dissolution and applications to HME technological considerations related to scale-up of HME processes devices and implant systems by HME an FDA perspective on HME product and process understanding improved process understanding and control of an HME process with near-infrared spectroscopy Hot-Melt Extrusion: Pharmaceutical Applications is an essential multidisciplinary guide to the emerging pharmaceutical uses of this processing technology for researchers in academia and industry working in drug formulation and delivery, pharmaceutical engineering and processing, and polymers and materials science. This is the first book from our brand new series Advances in Pharmaceutical Technology. Find out more about the series here.

Pharmaceutical Applications Routledge

The world has witnessed extraordinary economic growth, poverty reduction and increased life expectancy and population since the end of WWII, but it has occurred at the expense of undermining life support systems on Earth and subjecting future generations to the real risk of destabilising the planet. This timely book exposes and explores this colossal environmental cost and the dangerous position the world is now in. Standing up for a Sustainable World is written by and about key individuals who

have not only understood the threats to our planet, but also become witness to them and confronted them.

Advances in Structural Engineering Springer

The chemical industry combines theory (science) and practice (engineering) to create new and useful products. Catalysis according to the very definition of it, deals with enhancement of reaction rates, that is, with catalytic kinetics. This book unifies the main sub disciplines forming the cornerstone of catalytic kinetics.

Digital Transformation of the Design, Construction and Management Processes of the Built Environment Routledge

You're overseeing a large-scale project, but you're not an engineering or construction specialist, and so you need an overview of the related sustainability concerns and processes. To introduce you to the main issues, experts from the fields of engineering, planning, public health, environmental design, architecture, and landscape architecture review current sustainable large-scale projects, the roles team members hold, and design approaches, including alternative development and financing structures. They also discuss the challenges and opportunities of sustainability within infrastructural systems, such as those for energy, water, and waste, so that you know what's possible. And best of all, they present here for the first time the Zofnass Environmental Evaluation Methodology guidelines, which will help you and your team improve infrastructure design, engineering, and construction.

Strategies and Examples Food First Books

This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for

optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector.

IG Farben and the Making of Hitler's War Machine John Wiley & Sons

Today there are over a billion hungry people on the planet, more than ever before in history. While the global food crisis dropped out of the news in 2008, it returned in 2011 (and is threatening us again in 2012) and remains a painful reality for the world's poor and underserved. Why, in a time of record harvests, are a record number of people going hungry? And why are a handful of corporations making record profits? In *Food Rebellions! Crisis and the Hunger for Justice*, authors Eric Holt-Giménez and Raj Patel with Annie Shattuck offer us the real story behind the global food crisis and document the growing trend of grassroots solutions to

hunger spreading around the world. *Food Rebellions!* contains up to date information about the current political and economic realities of our food systems. Anchored in political economy and an historical perspective, it is a valuable academic resource for understanding the root causes of hunger, growing inequality, the industrial agri-foods complex, and political unrest. Using a multidisciplinary approach, Holt-Giménez and Patel give a detailed historical analysis of the events that led to the global food crisis and document the grassroots initiatives of social movements working to forge food sovereignty around the world. These social movements and this inspiring book compel readers to confront the crucial question: Who is hungry, why, and what can we do about it?

Concrete for the Modern Age Developments in materials and processes Franklin Classics

This book covers the important aspects of greenery in buildings, both in the landscape and within buildings, examining how greenery improves comfort and appeal in sustainable buildings. The book is part of the World Renewable Energy Network's drive to encourage architects and builders to use greenery as much as possible in their design to reduce energy consumption and provide a pleasant appearance and pleasing aspect to their buildings. It shows and demonstrates how widespread the use of greenery is in buildings, and the book's 17 chapters were chosen from 12 different countries representing a truly global look at the use and benefit of using greenery in buildings. This book is aimed at architects, building construction authorities, urban planners, and policymakers to encourage the use of greenery in their future buildings and explain why it is important to do so.

Finding Purpose, Driving Innovation and Executing Change Springer Nature

A comparison of the development of the synthetic dye industry in Europe and the US.

Global Innovation Index 2020 Little, Brown

By analysing the rationales for sustainability strategies, this book addresses a timely question for managers, academics and MBAs: 'when does it pay to be green?' Based on solid theoretical foundations and empirical research, it clarifies the elements involved in the formation and evaluation of sustainability strategies in firms.

Labor and Environmental Activism During the BASF Lockout Springer

Concrete for the Modern Age Developments in materials and processes Whittles Publishing

[The Dark Side of the All-American Meal](#) Cambridge University Press

This book is mainly based on the results of the EU-funded UE-FP7 Project EnCoRe, which aimed to characterize the key physical and mechanical properties of a novel class of advanced cement-based materials incorporating recycled powders and aggregates and/or natural ingredients in order to allow partial or even total replacement of conventional constituents. More specifically, the project objectives were to predict the physical and mechanical performance of concrete with recycled aggregates; to understand the potential contribution of recycled fibers as a dispersed reinforcement in concrete matrices; and to demonstrate the feasibility and possible applications of natural fibers as a reinforcement in cementitious composites. All of these aspects

are fully covered in the book. The opening chapters explain the material concept and design and discuss the experimental characterization of the physical, chemical, and mechanical properties of the recycled raw constituents, as well as of the cementitious composite incorporating them. The numerical models with potentialities for describing the behavior at material and structural level of constructions systems made by these composites are presented. Finally, engineering applications and guidelines for production and design are proposed.

A Handbook of Industrial Ecology Springer

This timely book is the first to provide a comprehensive overview of all important aspects of this modern technology with the focus on the "green aspect". The expert authors present everything from reactions without solvents to nanostructures for separation methods, from combinatorial chemistry on solid phase to dendrimers. The result is a ready reference packed full of valuable facts on the latest developments in the field - high-quality information otherwise widely spread throughout articles and reviews. From the contents: * Green chemistry for sustainable development * New synthetic methodologies and the demand for adequate separation processes * New developments in separation processes * Future trends and needs It is a "must-have" for every researcher in the field.

The Disappearing Spoon Springer

Most of us who live in the North and the West consume far too much- too much meat, too much fat, too much sugar, too much salt. We are more likely to put on too much weight than to go hungry. We live in a society that is heading for a crash. We are aware of what is happening and yet we refuse to take it fully into

account. Above all we refuse to address the issue that lies at the heart of our problems - namely, the fact that our societies are based on an economy whose only goal is growth for growth's sake. Serge Latouche argues that we need to rethink from the very foundations the idea that our societies should be based on growth. He offers a radical alternative - a society of 'de-growth'. De-growth is not the same thing as negative growth. We should be talking about 'a-growth', in the sense in which we speak of 'atheism'. And we do indeed have to abandon a faith or religion - that of the economy, progress and development - and reject the irrational and quasi-idolatrous cult of growth for growth's sake. While many realize that the never-ending pursuit of growth is incompatible with a finite planet, we have yet to come to terms with the implications of this - the need to produce less and consume less. But if we do not change course, we are heading for an ecological and human disaster. There is still time to imagine, quite calmly, a system based upon a different logic, and to plan for a 'de-growth society'.

Design and Control of Concrete Mixtures John Wiley & Sons

A reference for chemists, toxicologists, laboratory technicians, manufacturers, safety professionals, emergency first responders, and lawyers, this international directory of 51 major countries, provides more than 7,500 entries of hazardous chemical manufacturers, organizations, government agencies, hotlines, and useful Web sites for software and databases around the world.

Bloomsbury UK

This book gathers contributions from scientists and industry representatives on achieving a sustainable bioeconomy. It also

covers the social sciences, economics, business, education and the environmental sciences. There is an urgent need to optimise and maximise the use of biological resources, so that primary production and processing systems can generate more food, fibre and other bio-based products with less environmental impacts and lower greenhouse gas emissions. In other words, we need a “sustainable bioeconomy” – a term that encompasses the sustainable production of renewable resources from land, fisheries and aquaculture environments and their conversion into food, feed, fibre bio-based products and bio-energy, as well as related public goods. Despite the relevance of achieving a sustainable bioeconomy, there are very few publications in this field. Addressing that gap, this book illustrates how biological resources and ecosystems could be used in a more sustainable, efficient and integrated manner – in other words, how the principles of sustainable bioeconomy can be implemented in practice. Given its interdisciplinary nature, the field of sustainable bioeconomy offers a unique opportunity to address complex and interconnected challenges, while also promoting economic growth. It helps countries and societies to make a transition and to use resources more efficiently, and shows how to rely less on biological resources to satisfy industry demands and consumer needs. The papers are innovative, cross-cutting and include many practice-based lessons learned, some of which are reproducible elsewhere. In closing, the book, prepared by the Inter-University Sustainable Development Research Programme (IUSDRP) and the World Sustainable Development Research and Transfer Centre (WSD-RTC), reiterates the need to promote a sustainable bioeconomy today.

Forging a Common Bond Polity

The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges – including in the context of the economic slowdown induced by the coronavirus disease (COVID-19) crisis.

The Shape of Green New Society Publishers

In 1925, in the aftermath of World War One and the vengeful Treaty of Versailles, six of Germany's leading chemical companies banded together in a cartel to protect their business from increasing international competition. The merger succeeded beyond their wildest dreams and within a few years I.G. Farben, as the cartel was named, dominated the lucrative global chemical business. Yet twenty years later the directors found themselves on trial in the same Nuremberg courtroom that had decided the fates of the surviving leaders of the Third Reich. They were accused, in the words of the prosecutor, Telford Taylor, of being 'the men who made war possible ... the magicians who made the fantasies of Mein Kampf come true'. How had one of the world's leading companies, whose scientists had won Nobel Prizes, pioneered aspirin and a host of other essential drugs, and whose knowledge and expertise were the envy of the world, fallen from the heights of such success to become Hitler's creature, directly involved in the Holocaust with their experimental I.G. Monowitz

plant at Auschwitz? In this brilliantly researched and compelling book, Diarmuid Jeffreys shines a bright light on I.G. Farben's Faustian pact with the Third Reich to reveal the detailed story of the original military-industrial complex.

[International Resources Guide to Hazardous Chemicals](#) fib

Fédération internationale du béton

From New York Times bestselling author Sam Kean comes incredible stories of science, history, finance, mythology, the arts, medicine, and more, as told by the Periodic Table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why is gallium (Ga, 31) the go-to

element for laboratory pranksters?* The Periodic Table is a crowning scientific achievement, but it's also a treasure trove of adventure, betrayal, and obsession. These fascinating tales follow every element on the table as they play out their parts in human history, and in the lives of the (frequently) mad scientists who discovered them. THE DISAPPEARING SPOON masterfully fuses science with the classic lore of invention, investigation, and discovery--from the Big Bang through the end of time. *Though solid at room temperature, gallium is a moldable metal that melts at 84 degrees Fahrenheit. A classic science prank is to mold gallium spoons, serve them with tea, and watch guests recoil as their utensils disappear.