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Central venous catheters (CVC) are vital for patients receiving chemotherapy not compatible with peripheral infusion. Thousands of centrally and peripherally inserted central venous catheters are inserted into patients with cancer each year. All types of intravascular catheters are associated with complications. These complications may be divided into infectious, thrombotic, mechanical and occlusive events. All of these events have the potential to harm patients and cause additional expense for the health-care system. Furthermore, the above-mentioned complications are largely avoidable through proper patient selection, insertion technique, hygiene precautions and catheter maintenance. Catheter-related infections and deep venous thrombosis are the two most common and feared CVC related complications. Infection in a catheter can cause lifethreatening bacteraemia, and thrombosis can lead to pulmonary embolisation, post-thrombotic syndrome and stenosis of the vessel affected. Many studies describing methods to minimise infectious complications associated with central venous catheters have been carried out. These methods appear to have been implemented in most modern advanced healthcare facilities resulting in a continual decrease in catheter-related infections over the last two decades. New implantation techniques, fewer infections and better catheter materials are likely to have contributed to the reduction in the incidence of catheter-related deep venous thrombosis (CR-DVT). Peripherally inserted central venous catheters (PICC) and subcutaneously implanted vascular access ports (PORT) are two very commonly used catheter devices for delivery of chemotherapy. International guidelines are unclear as to which device to choose due to the paucity of controlled trials. The aim of this thesis was to study complications related to central venous access devices used over long periods of time, usually for the delivery of chemotherapy. Vascular access in cancer patients – clinical implications We prospectively studied PORT complications (Study 1) over a six-month follow-up period. In Study 2, we assessed the number of common CVC-related micro- organisms that are transferred across PORT membrane contaminated by a controlled suspension of micro-organisms when a non-coring access needle is inserted using two different techniques. In the largest randomised controlled trial published on this topic (Study 3), we compared PICC with PORT regarding CRDVT and other catheter-related complications. The economic implications of using PICC or PORT were assessed from health-care system´s perspective (Study 4), using data on adverse events and clinical factors (implantation, treatments and dwell-time) from Study 3. Chemotherapy against various forms of cancer is very common. Implantation of PORT is one of the ten most common surgical procedures in Sweden according to the Swedish Perioperative Register. Hence, the topic in this thesis may be clinically relevant to many patients and their health care providers. We found that the incidence of catheter-related blood stream infection was very low in the cohorts

studied. In general, PICCs are associated with significantly more CR-DVTs and adverse events than PORTs. The cost to the health-care system when using PICC is higher than for PORT when complications are included. Given the choice, patients about to commence chemotherapy appear to prefer PORT to PICC. PORT implantation is more painful than PICC insertion, but PICC appears to influence activities of daily life more than PORT.

A guide containing illustrations of damage, surveys, drying and decontamination, and repair work to buildings following flooding. Appendices include guidance to homeowners, technical information, and key organisations that can advise on flooding and information on the provision of insurance.

A collection of up-to-date information on diagnosis of defects in buildings, this is a revision of the previous PSA publication Common Defects in Buildings and looks at the causes of deterioration, durability of materials and the principles of diagnosis and investigation techniques.

Supersedes 2nd edition (1998, ISBN 0113220103). On cover and title page: efm-standards.

The HAPM Workmanship Checklists fills an important gap in the current information provision in the industry, providing guidance for those engaged in site inspections during the course of building works. Its unique checklist format, designed for use on site, is complimented by extensive references to sources of guidance, standards and legislative information. This book will be of interest to building professionals involved in site inspection work, as a contractor, consultant, or third party, e.g. civil and structural engineers, project managers, clerks of works, building control officers, insurance company site inspectors, building surveyors, architects and designers.

Almost half of the total energy produced in the developed world is inefficiently used to heat, cool, ventilate and control humidity in buildings, to meet the increasingly high thermal comfort levels demanded by occupants. The utilisation of advanced materials and passive technologies in buildings would substantially reduce the energy demand and improve the environmental impact and carbon footprint of building stock worldwide. Materials for energy efficiency and thermal comfort in buildings critically reviews the advanced building materials applicable for improving the built environment. Part one reviews both fundamental building physics and occupant comfort in buildings, from heat and mass transport, hygrothermal behaviour, and ventilation, on to thermal comfort and health and safety requirements. Part two details the development of advanced materials and sustainable technologies for application in buildings, beginning with a review of lifecycle assessment and environmental profiling of materials. The section moves on to review thermal insulation materials, materials for heat and moisture control, and heat energy storage and passive cooling technologies. Part two concludes with coverage of modern methods of construction, roofing design and technology, and benchmarking of façades for optimised building thermal performance. Finally, Part three reviews the application of advanced materials, design and technologies in a range of existing and new building types, including domestic, commercial and high-performance buildings, and buildings in hot and tropical climates. This book is of particular use to, mechanical, electrical and HVAC engineers, architects and low-energy building practitioners worldwide, as well as to academics and researchers in the fields of building physics, civil and building engineering, and materials science. Explores improving energy efficiency and thermal comfort through material

selection and sustainable technologies Documents the development of advanced materials and sustainable technologies for applications in building design and construction Examines fundamental building physics and occupant comfort in buildings featuring heat and mass transport, hygrothermal behaviour and ventilation

This BRE Special Digest provides practical guidance on specifying concrete for use in natural ground and in brownfield locations. The procedures for ground assessment and concrete specification cover the fairly common occurrence of sulfates, sulfides and acids and also the more rarely occurring aggressive carbon dioxide found in some ground and surface waters, which affects concrete foundations and sub-structures. This edition has been revised to reflect thinking and changes to British Standards. It introduces the phenomenon of chemical attack of concrete in the ground, describes modes of chemical attack and discusses the mechanisms of the principal types, including sulfate and acid attack, and the action of aggressive carbon dioxide. It then gives guidance on assessing the chemical aggressiveness of the ground, and recommendations for specifying concrete for general cast-in-situ use in the ground. It also gives recommendations for specifying surface carbonated precast concrete for general use in the ground, and includes design guides for specification of specific precast concrete products, including pipeline systems, box culverts and segmental linings for tunnels and shafts. The guidance applies to both buildings and civil engineering construction.

This expansive volume presents the essential topics related to construction materials composition and their practical application in structures and civil installations. The book's diverse slate of expert authors assemble invaluable case examples and performance data on the most important groups of materials used in construction, highlighting aspects such as nomenclature, the properties, the manufacturing processes, the selection criteria, the products/applications, the life cycle and recyclability, and the normalization. Civil Engineering Materials: Science, Processing, and Design is ideal for practicing architects; civil, construction, and structural engineers, and serves as a comprehensive reference for students of these disciplines. This book also: · Provides a substantial and detailed overview of traditional materials used in structures and civil infrastructure · Discusses properties of natural and synthetic materials in construction and materials' manufacturing processes · Addresses topics important to professionals working with structural materials, such as corrosion, nanomaterials, materials life cycle, not often covered outside of journal literature · Diverse author team presents expect perspective from civil engineering, construction, and architecture · Features a detailed glossary of terms and over 400 illustrations

Monthly magazine devoted to topics of general scientific interest.

This open access book explores the formation and socio-spatial trajectories of large housing estates in Europe. Are these estates clustered or scattered? Which social groups originally had access to residential space in housing estates? What is the size, scale and geography of housing estates, their architectural and built environment composition, services and neighbourhood amenities, and metropolitan connectivity? How do housing estates contribute to the urban mosaic of neighborhoods by ethnic and socio-economic status? What types of policies and planning initiatives have been implemented in order to prevent the social downgrading of housing estates? The collection of chapters in this book addresses these questions from a new perspective previously unexplored in scholarly literature. The social aspects of housing estates are thoroughly investigated (including socio-demographic and economic characteristics of current and past inhabitants; ethnicity and segregation patterns; population dynamics; etc.), and the physical composition of housing estates is described in significant detail (including building materials; building form; architectural and landscape design; built environment characteristics; etc.). This book is timely because the recent global economic crisis and Europe’s immigration crisis demand a thorough investigation of the role large housing estates play in

poverty and ethnic concentration. Through case studies of housing estates in 14 European centers, the book also identifies policy measures that have been used to address challenges in housing estates throughout Europe.

With ever increasing trends in urban consumption and production practices, a call for action to mitigate Climate Change is often seen as a way to foster sustainable development. Considerable attention is now being paid to determine what urban sustainability would include. Today there is a pressing need to broaden our knowledge and apply new concepts and frameworks to development of modern cities. Building on the foregoing, this book attempts to bring together and discuss concepts, tools, frameworks and best practices to cope with the emerging challenges faced by cities today. The book will be of use to policy makers, city planners, practitioners and academics who are starting to project what modern cities would need to do in terms of energy efficiency, mobility, planning and design of habitat and infrastructure and adapting to climate change.

Plastering, Construction operations, Internal, Plasters, Selection, Mixing, Composition, Construction materials, Interior decorating, Decorating, Sound insulation, Fire safety, Thickness, Dimensional tolerances, Renovation, Defects, Plasterwork, Fibres, Projection plastering, Lighting levels

This heavily illustrated volume presents the results of the technical study of twenty-five bronzes from the groundbreaking 1999 exhibition Adriaen de Vries: Imperial Sculptor, which firmly established the artist's reputation and afforded a rare opportunity to study in depth a large group of bronzes.

While oriented strandboard (OSB) is increasingly accepted as a structural building product, its application in stressed skin panels (SSP) is limited because of a lack of engineering data for short- and long-term flexural behaviour. In 1986/87, 24 SSPs were constructed, six with flanges of Douglas-fir plywood, six with flanges of Canadian softwood plywood (CSP), and 12 with flanges of OSB. Half were tested for short-term (elastic) behaviour and the other half for long-term (creep) behaviour. Long-term creep testing was begun in February 1987 and continued through to 1989/90. This report presents the results of the 1989/90 testing, which continued measuring and recording test data for deflection, relative humidity, and temperature on the three types of panels; established model predictions for each type of load duration set up for each type of SSP; compared prediction and experimental results using accepted analytical methods and indicated whether the models can be used for accurate prediction of time dependent properties of the different SSPs; determined the value of model parameters that can be related to mechanical properties of SSPs and compared those results to those of other jurisdictions; and indicated the practical significance of the results for house performance.

Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies has been designed to bind novel knowledge of wastewater pollution-induced impacts on various aspects of our environment. The book also contains novel methods and tools for the monitoring and treatment of produced wastewater.

"I thought life was pretty much over." Paul Herman "I was afraid people wouldn't see me for who I still was." Cathy Green "I didn't need this to be a better person." Susan Douglas "I wasn't sure I wanted to live 'this way.'" Kevin Wolitzky The above four people

and 49 more just like them went on to find high levels of success and lead satisfying lives. Together they tell 53 stories of moving forward to meet all the challenges, fears, obstacles, and problems common to the life-altering circumstances after spinal cord injury, and doing it without benefit of wealth, large settlements or solid health coverage. Ranging in age from 21 to 67, disabled from three to 48 years they share 931 years of disability experience. Roll Models is a valuable new resource for recently injured people and their families, and for nurses, therapists, psychologists and all other professionals who treat, work with and care for people with spinal cord injury. Straight from the horse's mouth, survivors explore their experiences with disability and answer many questions those in rehab are asking: Early Thoughts What were your thoughts immediately following injury? What were your initial thoughts and reactions regarding SCI and the future? The First Years What were your biggest fears during that first year or so? How did you get past those early fears? Changes, Obstacles and Solutions How much different are you now, compared to how you were before injury? What's been the biggest obstacle? How did you address these obstacles? Finding What Works What have been the most difficult things for you to deal with since injury? What's the worst thing about having an SCI and using a chair? What's been your biggest loss due to injury? Is SCI the worst thing that ever happened to you? Tell me something about your problem solving skills. How do you deal with stress? What do you do to relieve stress? Salvations, Turning Points and More Was there any one thing that was your "salvation" or key to your success? Was there a turning point for you when you began to feel things were going to get better? What personal factors, habits and beliefs have helped you the most? SCI and Meaning Do you find any meaning, purpose or lessons in your disability? Did any positive opportunities come your way because of your injury? What's your greatest accomplishment? What are you most proud of? "A wonderful roadmap with many alternate routes to living and thriving with SCI." Minna Hong, SCI survivor and Peer Support Coordinator/Vocational Liaison, Shepherd Center "Avoids the trap of providing a 'one size fits all mentality' and provides solutions as varied as the individuals used as examples. Accentuates the positives while not sugar coating the difficulties. Essential reading." Jeff Cressy SCI survivor and Director of Consumer and Community Affairs, SCI Project, Rancho Los Amigos "A great resource for people as they venture out into the world, or search for meaning and a deeper, richer life. Filled with examples of real people and their real experiences." Terry Chase, ND, RN; SCI survivor; Patient & Family Education Program Coordinator, Craig Hospital "A wonderful tool for the newly spinal cord injured individual, as well as the therapists and counselors working with them. This certainly hits the mark in capturing important survival strategies." Jack Dahlberg, SCI survivor, Past President of the National Spinal Cord Injury Association "Artfully crafted and organized, Roll Models sensitively portrays life following spinal cord injury. Informative, creative, sensitive, as well as infused with humor and a kind heart. Recommended with my highest accolades." Lester Butt, Ph.D., ABPP, Director of the Department of Psychology, Craig Hospital

This book addresses the changes in education practices, especially basic education, necessitated by the global challenges of climate change and sustainable development and in a context characterized by increasing poverty and inequality, migration and refugees. Written by a range of international scholars, scientists and grassroots practitioners from Africa, Latin America, Asia

(India, China, Malaysia) and Europe, the individual contributions focus on education policies and child development in various social contexts. Case-based experiences from both developed and developing countries provide inspiration and shed new light on the fundamental changes needed to adapt existing school systems and teacher training to face the challenges of the future. In this regard, the need to empower children themselves is emphasized. All contributions are based on a Workshop hosted in November 2015 by the Pontifical Academy of Sciences at the Vatican entitled “Children and Sustainable Development: A Challenge for Education” and follow three other significant events on sustainable development in 2015, namely the publication of Laudato Si’, the Encyclical Letter from Pope Francis, the release of the United Nations Sustainable Development Goals, and the COP21 Conference in Paris.

The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience.Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.

Paul McCartney and John Lennon described him as the Beatles' "favorite group," he won Grammy awards, wrote and recorded hit songs, and yet no figure in popular music is as much of a paradox, or as underrated, as Harry Nilsson. In this first ever full-length biography, Alyn Shipton traces Nilsson's life from his Brooklyn childhood to his Los Angeles adolescence and his gradual emergence as a uniquely talented singer-songwriter. With interviews from friends, family, and associates, and material drawn from an unfinished autobiography, Shipton probes beneath the enigma to discover the real Harry Nilsson. A major celebrity at a time when huge concerts and festivals were becoming the norm, Nilsson shunned live performance. His venue was the studio, his stage the dubbing booth, his greatest triumphs masterful examples of studio craft. He was a gifted composer of songs for a wide variety of performers, including the Ronettes, the Yardbirds, and the Monkees, yet Nilsson's own biggest hits were almost all written by other songwriters. He won two Grammy awards, in 1969 for "Everybody's Talkin'" (the theme song for Midnight Cowboy), and in 1972 for "Without You," had two top ten singles, numerous album successes, and wrote a number of songs--"Coconut" and "Jump into the Fire," to name just two--that still sound remarkably fresh and original today. He was once described by his producer Richard Perry as "the finest white male singer on the planet," but near the end of his life, Nilsson's career was marked by voice-damaging substance abuse and the infamous deaths of both Keith Moon and Mama Cass in his London flat. Drawing on exclusive access to Nilsson's papers, Alyn Shipton's biography offers readers an intimate portrait of a man

who has seemed both famous and unknowable--until now.

Reviewing exhaustively the current state of the art of tissue engineering strategies for regenerating bones and joints through the use of biomaterials, growth factors and stem cells, along with an investigation of the interactions between biomaterials, bone cells, growth factors and added stem cells and how together skeletal tissues can be optimised, this book serves to highlight the importance of biomaterials composition, surface topography, architectural and mechanical properties in providing support for tissue regeneration. Maximizing reader insights into the importance of the interplay of these attributes with bone cells (osteoblasts, osteocytes and osteoclasts) and cartilage cells (chondrocytes), this book also provides a detailed reference as to how key signalling pathways are activated. The contribution of growth factors to drive tissue regeneration and stem cell recruitment is discussed along with a review the potential and challenges of adult or embryonic mesenchymal stem cells to further enhance the formation of new bone and cartilage tissues. This book serves to demonstrate the interconnectedness of biomaterials, bone/cartilage cells, growth factors and stem cells in determining the regenerative process and thus the clinical outcome.

Included in this volume are an examination by Donna Kurtz and John Boardman of vase paintings depicting revelers associated with the poet Anakreon, a discussion by Jnos Gy-Szilagyi of Etrusco-Corinthian vases, and other essays.

All previous Biblical Hebrew lexicons have provided a modern western definition and perspective to Hebrew roots and words. This prevents the reader of the Bible from seeing the ancient authors' original intent of the passages. This is the first Biblical Hebrew lexicon that defines each Hebrew word within its original Ancient Hebrew cultural meaning. One of the major differences between the Modern Western mind and the Ancient Hebrew's is that their mind related all words and their meanings to a concrete concept. For instance, the Hebrew word "chai" is normally translated as "life", a western abstract meaning, but the original Hebrew concrete meaning of this word is the "stomach". In the Ancient Hebrew mind, a full stomach is a sign of a full "life". The Hebrew language is a root system oriented language and the lexicon is divided into sections reflecting this root system. Each word of the Hebrew Bible is grouped within its roots and is defined according to its original ancient cultural meaning. Also included in each word entry are its alternative spellings, King James translations of the word and Strong's number. Indexes are included to assist with finding a word within the lexicon according to its spelling, definition, King James translation or Strong's number.

This document provides data on greenhouse gas and international climate policy. It examines them at the global, national, sectoral, and fuel levels and identifies implications of the data for international cooperation on global climate change.