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Eco-efficient Repair and Rehabilitation of Concrete Infrastructures - Fernando Pacheco-Torgal 2017-11-15 Eco-efficient Repair and Rehabilitation of Concrete Infrastructures provides an updated state-of-the-art review on eco-efficient repair and rehabilitation of concrete infrastructure. The first section focuses on deterioration assessment methods, and includes chapters on stress wave assessment, ground-penetrating radar, monitoring of corrosion,

SHM using acoustic emission and optical fiber sensors. Other sections discuss the development and application of several new innovative repair and rehabilitation materials, including geopolymer concrete, sulfoaluminate cement-based concrete, engineered cementitious composites (ECC) based concrete, bacteria-based concrete, concrete with encapsulated polyurethane, and concrete with super absorbent polymer (SAPs), amongst other topics. Final sections focus on crucial design aspects, such as quality control, including lifecycle and cost analysis with several related case studies on repair and rehabilitation. The book will be an essential reference resource for materials scientists, civil and structural engineers, architects, structural designers and contractors working in the construction industry. Delivers the latest research findings with contributions from leading international experts Provides fully updated information on the European standard on materials for concrete repair (EN 1504) Includes an entire sections on the state-of-the-art in NDT, innovative repair and rehabilitation materials, as well as LCC and LCA information

Civil Engineering, Architecture and Sustainable Infrastructure II - Shun Bo Zhao 2013-10-15

Collection of selected, peer reviewed papers from the 2nd International Conference on Civil Engineering, Architecture and Sustainable Infrastructure (ICCEASI 2013), July 13-15, 2013, Zhengzhou, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 447 papers are grouped as follows: Chapter 1: Building Materials; Chapter 2: Structural Engineering; Chapter 3: Bridge, Underground and Road Engineering; Chapter 4: Hydrology, Coastal and Geotechnical Engineering;

Chapter 5: Earthquake and Seismic Engineering; Chapter 6: Civil Engineering, Urban Planning and Management.

Sprayed Concrete Lined Tunnels - Alun Thomas 2019-08-20

Sprayed concrete lined (SCL) tunnels are growing rapidly in popularity due to their versatility. The design and construction of both hard rock and soft ground tunnels has been revolutionised by the advent of the SCL method and now the use of permanent sprayed concrete linings has unlocked the true potential of the method to minimise construction costs and times. Yet the complex early age behaviour of the sprayed concrete makes the design difficult and requires a robust management system during construction. Consequently the great advantages of the method must be balanced against the risks, as a few high-profile tunnel collapses have illustrated. Practising engineers on site, in the design office or in client organizations will find this book an excellent introduction. It covers all aspects of SCL tunnelling – from the constituents of sprayed concrete to detailed design and management during construction. Although there is a close interdependence between all the facets of sprayed concrete, few engineers have the right breadth of experience and expertise to cover all of them. This urgently needs to be transferred to the wider engineering community as SCL tunnels play an increasingly important role in the delivery of the underground infrastructure which modern urban life demands. In this second edition, beyond a general updating to reflect new developments, the sections on permanent sprayed concrete, the innovative technology of spray applied waterproofing membranes, fibre reinforcement (both steel and macrosynthetic)

and composite lining design have been expanded. Sustainability and environmental impact are addressed in a new section.

Concrete Solutions - Michael Grantham 2016-09-19

Concrete Solutions contains the contributions from some 30 countries to Concrete Solutions, the 6th International Conference on Concrete Repair (Thessaloniki, Greece, 20-23 June 2016). Strengthening and retrofitting are major themes in this volume, with NDT and electrochemical repair following closely, discussing the latest advances and technologies in concrete repair. The book brings together some interesting and challenging theoretical approaches and questions if we really understand and approach such topics as corrosion monitoring correctly. Concrete Solutions is an essential reference work for those working in the concrete repair field, from engineers to architects and from students to clients. The Concrete Solutions Series of international conferences on concrete repair began in 2003 with a conference held in St. Malo, France in association with INSA Rennes. Subsequent conferences have seen the Series partnering with the University of Padua (Italy) in 2009, with TU Dresden (Germany) in 2011 and with Queen's University Belfast (Northern Ireland) in 2014. In 2016 Thessaloniki (Greece) hosted the conference, partnering with both Aristotle University of Thessaloniki (AUTH) and Democritus University of Thrace (DUTH). The next conference in the series will be held in 2019 in Istanbul.

Digital Fabrication with Cement-Based Materials - Nicolas Roussel 2022-01-12

This book presents the work of the RILEM Technical Committee 276-DFC: Digital fabrication with cement-based materials. The most important outcomes of the technical committee are

presented. First, a unified process classification for digital fabrication with concrete is proposed, discussed and illustrated. Then, a state of the art of the testing methods (both at a material and structural level and in the fresh and hardened state) is provided. The gathered knowledge is expected to form the foundation of some quality control procedures for fresh properties along with hardened properties and service life performance. The book will benefit academics, practitioners, industry and standardization committees interested in digital fabrication with cement-based materials.

Underground Facilities for Better Environment and Safety - 2008

Underground Facilities for Better Environment and Safety - V. K. Kanjlia 2008

Concrete for the Modern Age Developments in materials and processes - Dr Atef Badr 2017

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.

Proceedings fib Symposium in Prague Czech Republic Vol1 - FIB – International Federation for Structural Concrete 2011-06-01

Advances in Spatio-Temporal Analysis - Xinming Tang 2007-08-23

Developments in Geographic Information Technology have raised the expectations of users. A static map is no longer enough; there is now demand for a dynamic representation. Time is of great importance when operating on real world geographical phenomena, especially when these are dynamic. Researchers in the field of Temporal Geographical Information Systems (TGIS) have been developing methods of incorporating time into geographical information systems. Spatio-temporal analysis embodies spatial modelling, spatio-temporal

modelling and spatial reasoning and data mining. Advances in Spatio-Temporal Analysis contributes to the field of spatio-temporal analysis, presenting innovative ideas and examples that reflect current progress and achievements.

Concrete Repair - Michael G. Grantham 2011-04-05

Concrete is an inherently complex material to produce and an even more complex material to repair. With growing pressure to maintain the built environment, and not simply to demolish and rebuild, the need to repair concrete buildings and other structures is increasing and is expected to become of greater importance in the future. This straightforward book serves as a practical guide to engineers on the processes to be followed in commissioning a concrete repair. It stresses the need to fully understand the cause, extent and location of the problem, by appropriate insitu and laboratory testing. And it outlines the steps to a successful repair. It includes sections on the different repair techniques, giving good practical advice as to where and when to use them, and the warns of the pitfalls of their incorrect use. It also includes an up-to-date guide on the current standards for repair, and provides a good bibliography on other sources of information and books on the various techniques.

GeoResources Journal - Manfred König 2018-07-20

GeoResources appears 4 times per year in German (GeoResources Zeitschrift) and 4 times in English (GeoResources Journal). GeoResources is released as online issues on the GeoResources Portal (www.georesources.net). Additional GeoResources Journals are available as printed copies.

Lea's Chemistry of Cement and Concrete - Peter Hewlett 2019-03-06

Lea's Chemistry of Cement and

Concrete, Fifth Edition, examines the suitability and durability of different types of cements and concretes, their manufacturing techniques and the role that aggregates and additives play in achieving concrete's full potential of delivering a high-quality, long-lasting, competitive and sustainable product. Provides a 60% revision over the fourth edition last published in 2004 Includes updated chapters that represent the latest technological advances in the industry, including, but not exclusive to the production of low-energy cements, cement admixtures and concrete aggregates Presents expanded coverage of the suitability and durability of materials aggregates and additives

Mine Design, Planning and Sustainable Exploitation in the Digital Age - A.J.S. (Sam) Spearing 2022-09-19

Mine Design, Planning and Sustainable Exploitation in the Digital Age covers mine planning, design and exploitation taking cognizance of new developments, especially those associated with the Fourth Industrial Revolution and the positive influence that it has, and will have, on the mining industry. It refers to latest best practices with emphasis on the social license to operate and sustainable (green) mining. The book covers surface and underground mining in some detail and addresses relevant associated aspects such as risk management, green mining and the importance of real community relations. It is organized as follows: Surface Mining Underground Soft Rock Mining Underground Hard Rock (Metal/Non-metal) Mining Green and Sustainable Mining It has many relevant photos and figures that help the reader and includes appropriate support design and types commonly used in the various mining methods.

Mine Design, Planning and Sustainable Exploitation in the Digital Age is mainly aimed at mining, geological engineering and other undergraduate and postgraduates interested in the mining resources industry. It will also serve as a useful reference book for practitioners in the mining industry who want an easy-to-use book.

Involuntary Exposure to Agent Orange and Other Toxic Spraying - United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Oversight and Investigations 1980

Toxic Substances Control Act: Reporting company section - United States. Environmental Protection Agency. Office of Toxic Substances 1979

BASF Handbook Basics of Coating Technology - Hans-Joachim Streitberger 2018-02-28

The industry s most comprehensive handbook - now available in its 3rd edition: the BASF Handbook covers the entire spectrum from coatings formulation and relevant production processes through to practical application aspects. It takes a journey through the industry s various sectors, placing special emphasis on automotive coating and industrial coating in general. The new edition has been completely updated, featuring several new sections on nanoproducts, low-emissions, biobased materials, wind turbine coating, and smart coatings.

Rock Mechanics and Rock Engineering: From the Past to the Future - Reşat Ulusay 2016-11-18

Rock Mechanics and Rock Engineering: From the Past to the Future contains the contributions presented at EUROCK2016, the 2016 International Symposium of the

International Society for Rock Mechanics (ISRM 2016, Ürgüp, Cappadocia Region, Turkey, 29-31 August 2016). The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices, emphasizing the future direction of rock engineering technologies. The 204 accepted papers and eight keynote papers, are grouped into several main sections: - Fundamental rock mechanics - Rock properties and experimental rock mechanics - Analytical and numerical methods in rock engineering - Stability of slopes in civil and mining engineering - Design methodologies and analysis - Rock dynamics, rock mechanics and rock engineering at historical sites and monuments - Underground excavations in civil and mining engineering - Coupled processes in rock mass for underground storage and waste disposal - Rock mass characterization - Petroleum geomechanics - Carbon dioxide sequestration - Instrumentation-monitoring in rock engineering and back analysis - Risk management, and - the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock Mechanics and Rock Engineering: From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering. EUROCK 2016, organized by the Turkish National Society for Rock Mechanics, is a continuation of the successful series of ISRM symposia in Europe, which began in 1992 in Chester, UK.

Rapid Excavation and Tunneling Conference 2021 Proceedings - Jarrett E. Carlson 2021-06-06

Every two years, industry leaders and practitioners from around the world gather at the Rapid Excavation and Tunneling Conference (RETC), the

authoritative program for the tunneling profession, to learn about the most recent advances and breakthroughs in this unique field. The information presented helps professionals keep pace with the ever-changing and growing tunneling industry. This book includes the full text of 106 papers presented at the 2021 conference. Though the tunneling industry continues to develop both technically and contractually, one notable adaptation of the last two years has been the onset and management of COVID-19. The hallmarks of tunneling professionals include adaptability, resiliency, optimism, and management of change. These are traits that have been recently put to an entirely new challenge over the last year or so. We have truly witnessed why what we do is deemed “essential” infrastructure. The COVID-19 pandemic has impacted each of us, personally and professionally, and while times have been hard, we are fortunate to work in a field that is able to meet the challenge and thrive thereafter. Congratulations are in order to everyone in our industry for keeping the planning and development of projects moving forward and for maintaining safe and productive worksites in these challenging times.

Fiber Reinforced Cement Composites - Fadhel Aouadi 1992

Tunnels and Underground Cities: Engineering and Innovation Meet Archaeology, Architecture and Art - Daniele Peila 2020-07-14

Tunnels and Underground Cities: Engineering and Innovation meet Archaeology, Architecture and Art. Volume 5: Innovation in underground engineering, materials and equipment - Part 1 contains the contributions presented in the eponymous Technical Session during the World Tunnel Congress 2019

(Naples, Italy, 3-9 May 2019). The use of underground space is continuing to grow, due to global urbanization, public demand for efficient transportation, and energy saving, production and distribution. The growing need for space at ground level, along with its continuous value increase and the challenges of energy saving and achieving sustainable development objectives, demand greater and better use of the underground space to ensure that it supports sustainable, resilient and more liveable cities. The contributions cover a wide range of topics, from artificial intelligence techniques for geomechanical forecasting, via fiber reinforced concrete segmental lining, to advanced 4-channel scan systems for tunnel inspection. The book is a valuable reference text for tunnelling specialists, owners, engineers, archaeologists, architects, artists and others involved in underground planning, design and building around the world, and for academics who are interested in underground constructions and geotechnics.

Introduction to Tunnel Construction - David Chapman 2017-11-27

Tunnelling provides a robust solution to a variety of engineering challenges. It is a complex process, which requires a firm understanding of the ground conditions as well as the importance of ground-structure interaction. This book covers the full range of areas related to tunnel construction required to embark upon a career in tunnelling. It also includes a number of case studies related to real tunnel projects, to demonstrate how the theory applies in practice. New features of this second edition include: the introduction of a case study related to Crossrail's project in London, focussing on the Whitechapel and Liverpool

Street station tunnels and including considerations of building tunnels in a congested urban area; and further information on recent developments in tunnel boring machines, including further examples of all the different types of machine as well as multi-mode machines. The coverage includes: Both hard-rock and soft-ground conditions Site investigation, parameter selection, and design considerations Methods of improving the stability of the ground and lining techniques Descriptions of the various main tunnelling techniques Health and safety considerations Monitoring of tunnels during construction Description of the latest tunnel boring machines Case studies with real examples, including Crossrail's project in London Clear, concise, and heavily illustrated, this is a vital text for final-year undergraduate and MSc students and an invaluable starting point for young professionals and novices in tunnelling.

Fibre Reinforced Concrete: Improvements and Innovations II - Pedro Serna 2021-09-04

This volume highlights the latest advances, innovations, and applications in the field of fibre-reinforced concrete (FRC), as presented by scientists and engineers at the RILEM-fib X International Symposium on Fibre Reinforced Concrete (BEFIB), held in Valencia, Spain, on September 20-22, 2021. It discusses a diverse range of topics concerning FRC: technological aspects, nanotechnologies related with FRC, mechanical properties, long-term properties, analytical and numerical models, structural design, codes and standards, quality control, case studies, Textile-Reinforced Concrete, Geopolymers and UHPFRC. After the symposium postponement in 2020, this new volume concludes the publication

of the research works and knowledge of FRC in the frame of BEFIB from 2020 to 2021 with the successful celebration of the hybrid symposium BEFIB 2021. The contributions present traditional and new ideas that will open novel research directions and foster multidisciplinary collaboration between different specialists.

Rapid Excavation and Tunneling Conference: 2019 Proceedings - Christopher D. Hebert 2019-05-20

Share our experiences, our successes and failures, and our ideas and dreams, all with the goal of getting better at the work we love: building tunnels. Every two years, industry leaders and practitioners from around the world gather at the Rapid Excavation and Tunneling Conference (RETC), the authoritative program for the tunneling profession, to learn about the most recent advances and breakthroughs in this unique field. The information presented helps professionals keep pace with the ever-changing and growing tunneling industry. This book includes the full text of 111 papers presented at the 2019 conference covering such topics as contracting practices, design and planning, geotechnical considerations, hard-rock tunnel boring machines, new and innovative technologies, pressure-face TBM case histories, and tunneling for sustainability. The papers will inform, challenge, and stimulate each reader.

Advances in Cement-Based Materials - Gideon P.A.G. Van Zijl 2009-11-02

Collection of selected papers on current advances in high performance construction materials. Contributions deal with the development, characterization, application procedures, performance and structural design of materials with key potential in civil engineering works. Materials

treated are fibre reinforced concrete, high performance concrete, sel

Catalonia and California - Lowell Lewis 2013-07

Catalonia: A Country Known for Its Competitive Characteristics For the past three hundred years, Catalonia has been a unique region in Europe. It is not Spanish. It is not French. It is Catalan. Its uniqueness is apparent because of its language, but it is real because of its approach to trade, business development, education, and political development. Catalonia was one of the first regions in the world to adopt a methodology aimed at boosting competitiveness in a geographical area by improving the strategy and working environment of its companies. Today there are sound economic and business arguments supporting the case for Catalan independence. Historically, the development of California owes much to Catalonia and two Catalans-Junipero Serra and Gaspar de Portola. Serra found his first mission, the Mission San Diego on July 16, 1769, and then followed with nine more missions along the California coast to San Francisco. Gaspar de Portola was a Catalan born in OS de Balaguer, Lleida, in 1716. He was a soldier and governor of California. When I started to write this story, I wondered who would help me critically and constructively. I need not have been concerned. My life partner, Montserrat Trueta, is always there with innovative support and technical and literal aid. Numerous people here in Barcelona have been very supportive, especially Toni Strubble and Miquel Strubble. I want to give special thanks to Josep Trueta, who has been a great friend for over twenty-five years and strongly encouraged me to write this book. His leadership in building and managing IRTA for twenty-five

years impacted the entire scientific community in Spain. If you are reading this in the Catalan version, it is thanks to Carles Masia, who did the translation from English into Catalan.

CONCRETE Innovations in Materials, Design and Structures - FIB – International Federation for Structural Concrete 2019-05-27

This Proceedings contains the papers of the fib Symposium "CONCRETE Innovations in Materials, Design and Structures", which was held in May 2019 in Kraków, Poland. This annual symposium was co-organised by the Cracow University of Technology. The topics covered include Analysis and Design, Sustainability, Durability, Structures, Materials, and Prefabrication. The fib, Fédération internationale du béton, is a not-for-profit association formed by 45 national member groups and approximately 1000 corporate and individual members. The fib's mission is to develop at an international level the study of scientific and practical matters capable of advancing the technical, economic, aesthetic and environmental performance of concrete construction. The fib, was formed in 1998 by the merger of the Euro-International Committee for Concrete (the CEB) and the International Federation for Prestressing (the FIP). These predecessor organizations existed independently since 1953 and 1952, respectively.

Soft Ground Tunnel Design - Benoit Jones 2021-11-16

Soft Ground Tunnel Design is a textbook that teaches the principles of tunnel and underground space design in soft ground. 'Soft ground' refers to soil, in contrast to rock. The book focuses on stability, prediction of ground movements and structural design of the lining. It

shows that the choice of excavation and support methods depends on ground stability; limitation of damage to the existing built environment; and health, safety and environmental considerations. Author Benoît Jones builds on the basic principles of soil-structure interaction, the three-dimensional effects of construction sequence and the effects of construction on other surface or subsurface structures in steps of gradually increasing complexity. The use of worked examples throughout, and example problems at the end of each chapter, gives the reader confidence to apply their knowledge. Engineers and graduate students will be able to: • Understand the complex soil-structure interaction around an advancing tunnel. • Calculate heading stability. • Understand the basis for choosing an underground construction method and/or ground improvement method. • Design tunnel linings in soft ground using a variety of methods. • Predict ground movements. • Predict the effects of construction on the built environment and assess potential damage. Benoît Jones has worked in tunnelling as a designer, contractor and academic for more than 20 years. He set up and ran the MSc Tunnelling and Underground Space course at the University of Warwick. He is now managing director of his own company, Inbye Engineering.

Detail in Contemporary Concrete Architecture - David Phillips 2012-10-26

Detail in Contemporary Concrete Architecture provides analysis of both the technical and the aesthetic importance of details in modern concrete architecture. Featuring the work of renowned architects from around the world, this book presents 49 of the most recently completed and influential concrete designs for

both residential and commercial architecture. The projects are presented in clear and concise layouts over four pages. All of the drawings are styled consistently and presented at standard architectural scales to allow for easy comparison. Each project is presented with colour photographs, site plans and sections and elevations, as well as numerous construction details. There is also descriptive text, detailed captions and in-depth information for each project.

Toxic Substances Control Act: Trademarks and product names section - United States. Environmental Protection Agency. Office of Toxic Substances 1979

Underground Space - The 4th Dimension of Metropolises, Three Volume Set +CD-ROM - Jiri Bartak 2007-05-11

The so-called fourth dimension of a metropolis is the underground space beneath a city which typically includes structures such as tunnels, which facilitate transport and provide gas, water and other supplies. Underground space may also be utilised for living, working and recreational facilities and industrial storage. These volumes focus on underg

Official Gazette of the United States Patent and Trademark Office - United States. Patent and Trademark Office 2002

Concrete for Underground Structures - Robert J. F. Goodfellow 2011

Concrete is a vital component of almost every underground construction project. Because it significantly impacts both the durability and cost of a project, owners, designers, and contractors are constantly challenged with designing and placing the concrete to meet their quality standards in the most cost-effective way. Concrete for Underground Structures: Guidelines for Design and

Construction can make that task a lot easier. Instead of searching pages of scattered reference materials when writing specifications, this book is a one-source guide to help you quickly find the answers you need. The first resource of its kind, this practical nuts-and-bolts handbook provides an industry voice as well as recommendations for areas of concrete application. You'll get valuable insights into current best practices for all aspects of the design and construction of underground structural concrete. Internationally respected authors examine three key applications: cast-in-place concrete, precast concrete segmental linings, and shotcrete. Each chapter addresses the differences between aboveground and underground use. The various types of concrete admixtures are also discussed, and sample specifications for each are included. Concrete for Underground Structures is an indispensable resource for industry veterans as well as an educational tool for those who are new to the profession.

Sprayed Concrete Lined Tunnels - Alun Thomas 2008-10-08

Practising engineers on site, in the design office or in client organizations will find this book an excellent introduction to the design and construction of sprayed concrete lined (SCL) tunnels. The complex behaviour of the early age behaviour of the sprayed concrete requires careful management. This book covers all aspects of SCL tunnelling – from the constituents of sprayed concrete to detailed design and management during construction. Although there is a close interdependence between all the facets of sprayed concrete, few engineers have the right breadth of experience and expertise, and this urgently needs to be transferred to the wider engineering community.

Disseminating essential information for tunnelling engineers, Sprayed Concrete Lined Tunnels is key reading for all involved in or studying the process.

Beton-Kalender 2014 - Konrad Bergmeister 2014-08-04

Underground construction and foundations are very complex and expensive today, particularly in inner cities. In order to provide a quick overview of the interfaces and the necessary dialogue among qualified engineers in modern design and construction, the entire range of disciplines and specialisations involved are described. The latest types of foundations and construction methods in general building are extensively described. Particular attention is paid to the highly non-linear and complex holistic behavior of the system ground-structure and the interaction between the verification of serviceability of the foundation and the limit state of load-bearing capacity in the structure above. Excavations are required for almost all construction projects, from pipe laying to extensive building projects between existing buildings. The essential calculation methods and construction processes are explained here, updated from EAB 2012.

Water and Energy International - 2017

Hot-Melt Extrusion - Dennis Douroumis 2012-04-24

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.

Trademarks and product names section - United States. Environmental Protection Agency. Office of Toxic Substances 1979

Toxic Substances Control Act (TSCA) chemical substance inventory - United States. Environmental Protection Agency. Office of Toxic Substances 1979

Shotcrete: Elements of a System - Stefan Bernard 2010-02-10

Over the last twenty years we have witnessed a revolution in ground stabilization in both underground and above-ground applications, thanks largely to the widespread adoption of shotcrete as a medium for support. Shotcrete technology continues to evolve and improve as its utilization increases. From relatively obscure and sporadic beginnings, it ha