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The North American Tunneling  
Conference is the premier forum to

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discuss new trends and developments in underground construction in North America. With every conference, the number of attendees and breadth of topics grows. North American Tunneling: 2014 Proceedings reflects the theme for

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the 2014 conference, “Mission Possible.” The authors share new theories, novel innovations, and the latest tools that make what once may have been perceived as impossible, now possible. The authors of 128 papers share the latest case histories,

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expertise, lessons learned, and real-world applications from around the globe on a wide range of topics.

They cover the successes and failures of challenging construction projects. Read about challenging design issues, fresh approaches on

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performance, future projects, and industry trends as well as ground movement and support, structure analysis, risk and cost management, rock tunnels, caverns and shafts, TBM technology and selection, and water and wastewater conveyance.

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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

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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

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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



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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

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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

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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

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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

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military and applied non-military technological education and training providers in the world.

Reinforced concrete (R/C) is one of the main building materials used worldwide, and an understanding of its structural performance under

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gravity and seismic loads, albeit complex, is crucial for the design of cost effective and safe buildings. Concrete Buildings in Seismic Regions comprehensively covers of all the analysis and design issues related to the design of reinforced

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concrete buildings under seismic action. It is suitable as a reference to the structural engineer dealing with specific problems during the design process and also for undergraduate and graduate structural, concrete and earthquake engineering courses. This

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revised edition provides new and significantly developed coverage of seismic isolation and passive devices, and coverage of recent code modifications as well as notes on future developments of standards. It retains an overview of structural



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dynamics, the analysis and design of new R/C buildings in seismic regions, post-earthquake damage evaluation, pre-earthquake assessment of buildings and retrofitting procedures, and several numerical examples. The book

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outlines appropriate structural systems for many types of buildings, explores recent developments, and covers the last two decades of analysis, design, and earthquake engineering. It specifically addresses seismic demand issues and the basic

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issues of structural dynamics, considers the "capacity" of structural systems to withstand seismic effects in terms of strength and deformation, and highlights the assessment of existing R/C buildings under seismic action. All of the

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material has been developed to fit a modern seismic code and offers in-depth knowledge of the background upon which the code rules are based. It complies with European Codes of Practice for R/C buildings in seismic regions, and includes references to

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current American Standards for  
seismic design.

Environment and Loading :  
Proceedings of the Third  
International Conference on  
Concrete Under Severe Conditions,  
CONSEC'01, Vancouver, BC,

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Canada, 18-20 June 2001

Shotcrete: Elements of a System

Advances in Spatio-Temporal

Analysis

Proceedings of the International

Conference Held at the University of

Dundee, Scotland, UK on 9-11

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September 2002

Concrete for the Modern Age  
Developments in materials and  
processes  
Specifications for Structural  
Concrete, ACI 301-05, with Selected  
ACI References

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***This Special Issue  
presents the latest  
advances in the field of  
Textile-Reinforced Cement  
Composites, including  
Textile-Reinforced  
Concrete (TRC), Textile-***



***Reinforced Mortar (TRM),  
Fabric-Reinforced  
Cementitious Matrix  
(FRCM), etc. These  
composite materials  
distinguish themselves  
from other fibre-***

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***reinforced concrete materials by their strain-hardening behaviour under tensile loading. This Special Issue is composed of 14 papers covering new insights in structural and***

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***material engineering. The papers include investigations on the level of the fibre reinforcement system as well as on the level of the composites,***

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***investigating their impact  
and fatigue behaviour,  
durability and fire  
behaviour. Both the  
strengthening of existing  
structures and the  
development of new***

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***structural systems such as  
lightweight sandwich  
systems are presented, and  
analysis and design  
methods are discussed.  
This Special Issue  
demonstrates the broadness***

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***and intensity of the  
ongoing advancements in  
the field of Textile-  
Reinforced Cement  
composites and the  
importance of several  
future research***

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***directions.***

***This specification  
contains the construction  
requirements for the  
application of shotcrete.  
There is no substitute for  
concrete that can be used***

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***on the same engineering  
scale. Its sustainability,  
exploitation and further  
development are necessary  
for a healthy economy and  
environment worldwide.  
Concrete must keep***



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*evolving to satisfy the  
increasing demands of all  
its users.*

*Concrete Buildings in  
Seismic Regions, Second  
Edition*

*Underground Space - The*

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***4th Dimension of  
Metropolises, Three Volume  
Set +CD-ROM***

***506R-05 Guide to  
Shotcrete, 2005 (Order  
Code***

***Coal Combustion Byproducts***

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***Proceedings of the Second  
International Conference  
on Engineering  
Developments in Shotcrete,  
October 2004, Cairns,  
Queensland, Australia.  
An Introduction to***

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***Shotcrete Quality Control  
Introductory technical  
guidance for civil engineers  
interested in construction  
methods using shotcrete.***

***Here is what is discussed: 1.  
QUALITY CONTROL 2.***

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**QUALITY ASSURANCE 3.  
REFERENCES 4. GLOSSARY  
5. MIXTURE  
PROPORTIONING SAMPLE  
SUBMITTAL.**

***The Tunnel Engineering  
Handbook, Second Edition***

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***provides, in a single  
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the state of the art in the  
design, construction, and  
rehabilitation of tunnels. It  
brings together essential***

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***information on all the  
principal classifications of  
tunnels, including soft  
ground, hard rock,  
immersed tube and cut-and-  
cover, with comparisons of  
their relative advantages and***

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***suitability. The broad coverage found in the Tunnel Engineering Handbook enables engineers to address such critical questions as how tunnels are planned and laid out, how***



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***the design of tunnels depends on site and ground conditions, and which types of tunnels and construction methods are best suited to different conditions. Written by the leading engineers in***

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***the fields, this second edition features major revisions from the first, including: \* Complete updating of all chapters from the first edition \* Seven completely new chapters***

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***covering tunnel stabilization  
and lining, difficult ground,  
deep shafts, water  
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diameter tunnels, fire life  
safety, tunnel rehabilitation  
and tunnel construction***

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essential resource for all  
practicing engineers  
engaged in the design of  
tunnels and underground  
construction. In addition,  
the book contains a wealth***

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***of information that  
government administrators  
and planners and  
transportation officials will  
use in the planning and  
management of tunnels.  
This collection contains 24***

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***papers presented at the  
Eighth International  
Conference on Shotcrete for  
Underground Support, held  
in Campos do Jordão, Brazil,  
April 11-15, 1999.***

***Twentieth-Century Building***

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***Materials***

***ACI Manual of Concrete  
Practice***

***Tunnel Engineering  
Handbook***

***Shotcrete for Underground  
Support X***

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***Eighth International  
Conference Proceedings,  
April 11-15, 1999, São Paulo,  
Brazil***

***Shotcrete: More Engineering  
Developments***

**In the second part of the**

*Page 49/143*

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**book, the chemical, the mineralogical composition and the microfabrics of concretes and related materials are discussed. An illustrated guide to the features that can be**

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**observed and identified  
using a petrological  
microscope is given. There  
is an extensive review of the  
defects, deterioration and  
failures which can occur in  
concrete together with the**

**observations and petrographic evidence relating to them. Extensive use has been made of illustrative examples in colour which together with appropriate discussion will**

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**assist the engineer as well  
as both the trainee and  
experienced petrographer  
in understanding the  
nature of the evidence  
which is basic to  
petrographic analysis. An**

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**extensive glossary of optical  
and other properties of  
minerals found in concretes  
completes this practical  
handbook.**

**A reference for shotcrete  
technologists and**

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**practitioners on this  
method of concrete  
placement and its great  
scope for adaptability,  
optimization, and error. The  
text assesses laboratory  
research projects and also**

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**focusses on innovative  
developments in this field.  
Understanding and  
recognising failure  
mechanisms in concrete is  
a fundamental pre-requisite  
to determining the type of**



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**repair, or whether a repair is feasible. This title provides a review of concrete deterioration and damage, as well as looking at the problem of defects in concrete. It also discusses**

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**condition assessment and  
repair techniques. Part one  
discusses failure  
mechanisms in concrete  
and covers topics such as  
causes and mechanisms of  
deterioration in reinforced**

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**concrete, types of damage  
in concrete structures,  
types and causes of  
cracking and condition  
assessment of concrete  
structures. Part two reviews  
the repair of concrete**

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**structures with coverage of  
themes such as standards  
and guidelines for repairing  
concrete structures,  
methods of crack repair,  
repair materials, bonded  
concrete overlays, repairing**

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**and retrofitting concrete structures with fiber-reinforced polymers, patching deteriorated concrete structures and durability of repaired concrete. With its**

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**distinguished editor and  
international team of  
contributors, Failure and  
repair of concrete  
structures is a standard  
reference for civil  
engineers, architects and**

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**anyone working in the  
construction sector, as well  
as those concerned with  
ensuring the safety of  
concrete structures.  
Provides a review of  
concrete deterioration and**

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**damage Discusses condition  
assessment and repair  
techniques, standards and  
guidelines  
Failure, Distress and Repair  
of Concrete Structures**



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**Textile Reinforced Cement  
Composites  
Teknologi Konkrit  
Shotcrete  
50605.WIN).**

"The subcommittee has  
called this hearing so

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that members might learn more about coal ash, the small businesses that turn coal ash into useful products and the concerns that these businesses have about

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the proposed Federal regulations that they believe may have a negative effect on their industry ... The EPA has recently issued two proposals for regulating

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coal ash. One would regulate coal ash as a solid waste and would provide very limited Federal enforceability and may not provide adequate protection of

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the environment and human health. The other would list coal ash as a special waste under the Hazardous Waste Subtitle in the Resource Conservation and

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Recovery Act, Subtitle  
C. The second option is  
one that we will focus  
on ... since it has  
generated great concerns  
among small businesses  
across this country.

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These businesses, many of which are represented here today, have reason to believe that regulating coal ash under Subtitle C, even as a special waste, will

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open recycling  
operations to added  
litigation and a stigma  
that will discourage the  
... use of the products  
made with recycled coal  
ash." --P. 1-2.



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The so-called fourth dimension of a metropolis is the underground space beneath a city which typically includes structures such as

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tunnels, which facilitate transport and provide gas, water and other supplies.

Underground space may also be utilised for living, working and

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recreational facilities  
and industrial storage.

These volumes focus on  
underg

Practising engineers on  
site, in the design  
office or in client

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organizations will find this book an excellent introduction to the design and construction of sprayed concrete lined (SCL) tunnels. The complex behaviour of the

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early age behaviour of  
the sprayed concrete  
requires careful  
management. This book  
covers all aspects of  
SCL tunnelling - fro  
Engineering Developments

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Potential Impact of a  
Hazardous Waste  
Designation on Small  
Businesses in the  
Recycling Industry :  
Hearing Before the  
Committee on Small

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Business, United States  
House of  
Representatives, One  
Hundred Eleventh  
Congress, Second  
Session, Hearing Held  
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Concrete Under Severe  
Conditions  
Specialist Techniques  
and Materials for  
Concrete Construction  
Sprayed Concrete Lined  
Tunnels

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Proceedings of the  
International Conference  
Held at the University  
of Dundee, Scotland, UK  
on 8-10 September 1999

***Containing the proceedings  
of the 14th Conference on***

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***Studies, Repairs and  
Maintenance of Heritage  
Architecture (STREMAH  
2015), this book provides  
the necessary scientific  
knowledge required to  
formulate regulatory***

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***policies and to ensure  
effective ways of preserving  
the architectural heritage.  
First held in 1989, the  
STREMAH conference  
attracts an extensive range  
of quality contributions from***

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***scientists, architects,  
engineers and restoration  
experts from all over the  
world dealing with various  
aspects of heritage  
buildings. The conference  
proceedings cover a wide***

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***range of topics related to  
the historical aspects and  
the reuse of heritage  
buildings, as well as  
technical issues on the  
structural integrity of  
different types of buildings,***

***such as those constructed  
with materials as varied as  
iron and steel, concrete,  
masonry, wood or earth.  
Material characterisation  
techniques are also  
addressed, including non-***

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***destructive tests via  
computer simulation. Other  
topics include: Surveying  
and monitoring;  
Performance and  
maintenance; Modern  
(19th/20th century)***

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***heritage; Maritime heritage;  
Simulation and modelling;  
Material characterisation;  
New technologies or  
materials; Corrosion and  
material decay; Seismic  
vulnerability; Assessment***



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***and re-use of heritage  
buildings; Heritage and  
tourism; Social and  
economic aspects in  
heritage; Guidelines, codes  
and regulations for heritage;  
Heritage management;***

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***Defence heritage; Industrial  
heritage; Transportation  
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***506R-05 Guide to Shotcrete,  
2005 (Order  
Code50605.WIN).Structural  
Studies, Repairs and***

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***Maintenance of Heritage  
Architecture XIVWIT Press  
Concrete will be the key  
material for Mankind to  
create the built environment  
of the next millennium. The  
requirements of this***

***infrastructure will be both  
demanding, in terms of  
technical performance and  
economy, and yet be greatly  
varied, from architectural  
masterpieces to the  
simplest of***

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***utilities. Specialist  
techniques and materials for  
concrete construction forms  
the Proceedings of the three  
day international conference  
held during the Congress,  
creating with concrete, 6-10***

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***September 1999, organised  
by the Concrete technology  
unit, University of Dundee.  
SME Mining Engineering  
Handbook, Third Edition  
Durability of Building  
Materials and Components 8***

*Page 94/143*

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***Significance of Tests and  
Properties of Concrete and  
Concrete-making Materials  
Proceedings of the 10th  
International Conference :  
September 12-16, 2006,  
Whistler, British Columbia,***

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**Canada**

**PCI Journal**

**Rock Support and  
Reinforcement Practice in  
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This third edition of the SME Mining  
Engineering Handbook reaffirms its



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international reputation as "the handbook of choice" for today's practicing mining engineer. It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining

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professional: Analyzing how the mining and minerals industry will develop over the medium and long term--why such changes are inevitable, what this will mean in terms of challenges, and how they could be managed Explaining the mechanics associated with the multifaceted world

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of mine and mineral economics, from the decisions associated with how best to finance a single piece of high-value equipment to the long-term cash-flow issues associated with mine planning at a mature operation Describing the recent and ongoing technical initiatives and engineering developments in

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relation to robotics, automation, acid  
rock drainage, block caving  
optimization, or process dewatering  
methods Examining in detail the  
methods and equipment available to  
achieve efficient, predictable, and safe  
rock breaking, whether employing a  
tunnel boring machine for

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development work, mineral extraction using a mobile miner, or cast blasting at a surface coal operation Identifying the salient points that dictate which is the safest, most efficient, and most versatile extraction method to employ, as well as describing in detail how each alternative is engineered

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increases. From relatively obscure and sporadic beginnings, it has  
Bearing in mind that reinforced concrete is a key component in a majority of built environment structures, Concrete Buildings in Seismic Regions combines the scientific knowledge of earthquake

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engineering with a focus on the design of reinforced concrete buildings in seismic regions. This book addresses practical design issues, providing an integrated, comprehensible, and clear presentation that is suitable for design practice. It combines current approaches to seismic analysis and

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design, with a particular focus on reinforced concrete structures, and includes: an overview of structural dynamics analysis and design of new R/C buildings in seismic regions post-earthquake damage evaluation, pre earthquake assessment of buildings and retrofiting procedures seismic risk

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management of R/C buildings within urban nuclei extended numerical example applications Concrete Buildings in Seismic Regions determines guidelines for the proper structural system for many types of buildings, explores recent developments, and covers the last two

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decades of analysis, design, and earthquake engineering. Divided into three parts, the book specifically addresses seismic demand issues and the basic issues of structural dynamics, considers the "capacity" of structural systems to withstand seismic effects in terms of strength

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and deformation, and highlights existing R/C buildings under seismic action. All of the book material has been adjusted to fit a modern seismic code and offers in-depth knowledge of the background upon which the code rules are based. It complies with the last edition of European Codes of

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Practice for R/C buildings in seismic regions, and includes references to the American Standards in effect for seismic design.

Concrete Petrography

PRO 30: 4th International RILEM

Workshop on High Performance Fiber

Reinforced Cement Composites

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(HPFRCC 4)

North American Tunneling: 2014  
Proceedings

Board of Contract Appeals Decisions  
Field Reference Manual

Innovations and Developments in  
Concrete Materials and Construction  
***Developments in Geographic***



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***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***

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***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.***

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***"Sprayed Concrete Technology"  
forms the proceedings of the  
International Conference organised  
by the American Concrete Institute  
and the Sprayed Concrete  
Association in Edinburgh, Scotland,  
September 1996.  
Marking a crucial point in the***

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