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Mahrenholtz, Hans
G. Natke, Hans
Nussbaumer,
Anthony J.
Pretlove, Johann
H. Rainer, Ernst-
Ulrich Saemann,
Lorenz
Steinbeisser. Large
structures such as
factories,
gymnasia, concert

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halls, bridges, towers, masts and chimneys can be detrimentally affected by vibrations. These vibrations can cause either serviceability problems, severely hampering the user's comfort, or

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safety problems.
The aim of this
book is to provide
structural and civil
engineers working
in construction
and environmental
engineering with
practical
guidelines for
counteracting
vibration

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problems.

Dynamic actions are considered from the following sources of vibration: - human body motions, - rotating, oscillating and impacting machines, - wind flow, - road traffic,

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railway traffic and construction work. The main section of the book presents tools that aid in decision-making and in deriving simple solutions to cases of frequently occurring "normal" vibration

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problems.
Complexer
problems and
more advanced
solutions are also
considered. In all
cases these
guidelines should
enable the
engineer to decide
on appropriate
solutions

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expeditiously. The appendices of the book contain fundamentals essential to the main chapters. The papers in these two volumes were presented at the International Conference on “ NexGen

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Technologies for
Mining and Fuel
Industries ”
[NxGnMiFu-2017]
in New Delhi from
February 15-17,
2017, organized
by CSIR-Central
Institute of Mining
and Fuel Research,
Dhanbad, India.
The proceedings

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include the contributions from authors across the globe on the latest research on mining and fuel technologies. The major issues focused on are: Innovative Mining Technology, Rock Mechanics and

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Stability Analysis,
Advances in
Explosives and
Blasting, Mine
Safety and Risk
Management,
Computer
Simulation and
Mine Automation,
Natural Resource
Management for
Sustainable

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Development,
Environmental
Impacts and
Remediation, Paste
Fill Technology
and Waste
Utilisation, Fly Ash
Management,
Clean Coal
Initiatives, Mineral
Processing and
Coal Beneficiation,

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Quality Coal for Power Generation and Conventional and Non-conventional Fuels and Gases. This collection of contemporary articles contains unique knowledge, case studies, ideas and insights, a

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must-have for
researchers and
engineers working
in the areas of
mining
technologies and
fuel sciences.

This volume
presents selected
papers presented
during the 4th
International

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Conference on
Transportation
Geotechnics. The
papers address the
geotechnical
challenges in
design,
construction,
maintenance,
monitoring, and
upgrading of
roads, railways,

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airfields, and
harbor facilities
and other ground
transportation
infrastructure with
the goal of
providing safe,
economic,
environmental,
reliable and
sustainable
infrastructures.

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This volume will be of interest to postgraduate students, academics, researchers, and consultants working in the field of civil and transport infrastructure.

The First Southern

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African
Geotechnical
Conference was
organised by the
Geotechnical
Division of the
South African
Institution of Civil
Engineering
(SAICE) under the
auspices of the
International

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Society of Soil
Mechanics and
Geotechnical
Engineering
(ISSMGE) and took
place at Sun City,
South Africa on 5
and 6 May 2016.
More than 60
papers were rec
Railway Noise and
Vibration

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Practical
Guidelines
Theory, Methods
and Measuring
Instrumentation
Environmental
Noise Control
Fragblast 10
Proceedings of the
7th International
Conference on
Earthquake

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Geotechnical
Engineering,
(ICEGE 2019),
June 17-20, 2019,
Rome, Italy
Science,
Technology and
Practice :
Proceedings of the
8th International
Conference on the
Application of

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Stress-Wave
Theory to Piles :
Lisbon, Portugal,
8-10 September
2008

*Vibration Problems
in
Structures Practical
Guidelines Birkhäuser*
*This text looks at
mine planning and
equipment and
covers topics such*

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as: design and planning of surface and underground mines; geotechnical stability in surface and underground mines; and mining and the environment. Today the human body is exposed to vibration not only while traveling but also during leisure and domestic

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activities and in many occupations. This volume summarizes the current understanding of the many human responses to vibration. Divided into two parts, this book deals with whole-body vibrations and hand-transmitted

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vibration. In each part the experimental data and appropriate models are presented in detail so that readers can address practical problems. An extensive guide to national and international standards is provided, and a large multidisciplinary

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*glossary of terms
assists in
understanding the
relevant technical
and medical jargon.
This comprehensive
reference volume is
accessible to all
those interested in
human vibration:
medical doctors,
engineers, lawyers,
scientists, and health
and safety officials*

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*and administrators.
LK uses the following
bulleted list_ This
new text features: An
up-to-date statement
of current knowledge
on human responses
to vibration A
comprehensive
glossary of terms in
current use in the
fields of vibration
and human response
An extensive*

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*bibliography and
guide to national and
international
standards*

*The fundamental
concepts, ideas and
methods underlying
all vibration
phenomena are
explained and
illustrated in this
book. The principles
of classical linear
vibration theory are*

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*brought together
with vibration
measurement, signal
processing and
random vibration for
application to
vibration problems in
all areas of
engineering. The
book pays partic
NexGen
Technologies for
Mining and Fuel
Industries (Volume I*

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*and II)
Geotechnical
Engineering for the
Preservation of
Monuments and
Historic Sites III
Proceedings of the
World Tunnel
Congress 2007 and
33rd ITA/AITES
Annual General
Assembly, Prague,
May 2007
Advances and Trends*

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*in Engineering
Sciences and
Technologies II
Explosives and
Blasting Technique
Proceedings of the
11th International
Workshop on Railway
Noise, Uddevalla,
Sweden, 9-13
September 2013
Electrical Measuring
Instruments and
Measurements*

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Forty one years ago, the International Society for Rock Mechanics (ISRM) held its 1st International Congress in Lisbon, Portugal. In July 2007, the 11th ISRM Congress returned to

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Lisbon, where the Portuguese Geotechnical Society (SPG), the Portuguese National Group of the ISRM, hosted the meeting. The Second Half Century of Rock Mechanics comprises the proceedings of

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**the 11th ISRM
Congress, and
reviews how the
discipline of Rock
Mechanics has
evolved over the
past half century
to become an
important area of
Geotechnical
Engineering, and
considers new
perspectives and**

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developments as well. The organization of the congress was co-sponsored by the Spanish Society for Rock Mechanics (SMR), who also organized two satellite workshops in Madrid

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("Underground Works under Special Conditions" and "Preservation of Natural Stone and Rock Weathering"). The Congress also included another satellite workshop in the Azores ("2nd

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**International
Workshop on
Volcanic Rocks"),
several short
courses, a
selection of one-
day technical
tours in Portugal
and other events.
The Second Half
Century of Rock
Mechanics
contains the**

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**complete papers
presented by the
ISRM National
Groups, as well as
transcripts of
special lectures
by invited
speakers on key
issues and recent
research
developments.
The themes of
general interest**

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**included: Rock
Engineering and
Environmental
Issues; The Path
from
Characterization
to Modelling;
Slopes,
Foundations and
Open Pit Mining;
Tunnel, Caverns
and Underground
Mining;**

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**Earthquake
Engineering and
Rock Dynamics;
Petroleum
Engineering and
Hydrocarbon
Storage; and
Safety Evaluation
and Risk
Management. The
Second Half
Century of Rock
Mechanics will be**

Page 40/184

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**of interest to
professionals,
engineers, and
academics
involved in rock
mechanics, rock
engineering,
tunnelling,
mining, earth
quake
engineering, rock
dynamics and
geotechnical**

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**engineering.
Ground vibration
consideration is
gaining
significance with
people's
decreasing
tolerance of
vibration,
introduction of
new
environmental
legislations,**

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**increasing use of
equipment
sensitive to
vibration, ageing
of existing
buildings and
expanding
construction sites
to/near collapsibl
e/liquefiable/thix
otropic soil. This
volume bridges
the gap that**

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exists between rather limited provisions of engineering codes/standards and complex numerical analyses/small-scale tests. The book contains descriptions of ground vibration measurements,

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predictions and control for engineers. Effects of most frequent sources of ground vibration arising from construction /demolition, traffic and machinery, ground wave amplification and attenuation as

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**well as
foundation
kinematic and
inertial
interaction have
been considered
by simplified
analyses aimed at
ease and speed of
use for major
problems in
ground vibration
engineering.**

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Comments on assumptions, limitations, and factors affecting the results are given. Case studies and examples worldwide are included to illustrate the accuracy and usefulness of

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simplified methods. A list of references is provided for further consideration, if desired.

Audience: This work is of interest to geotechnical engineers, engineering

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**geologists,
earthquake
engineers and
students. Extra
material:
Microsoft Excel
spreadsheets with
the input data
and results for
the case studies
and examples
considered in this
book are**

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**available at [http://
/extras.springer.c
om](http://extras.springer.com)**

**Conference was
initiated by the
Ground Board of
the Institution of
Civil Engineers,
London, and was
held on 20
November 1997,
London.**

Structural

Page 50/184

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**Analysis of
Historical
Constructions
contains about
160 papers that
were presented at
the IV
International
Seminar on
Structural
Analysis of
Historical
Constructions**

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**that was held
from 10 to 13
November, 2004
in Padova Italy.
Following
publications of
previous
seminars that
were organized in
Barcelona, Spain
(1995 and 1998)
and Guimarães,
Portugal (2001),**

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**state-of-the-art
information is
presented in
these two
volumes on the
preservation,
protection, and
restoration of
historical
constructions,
both comprising
monumental
structures and**

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complete city centers. These two proceedings volumes are devoted to the possibilities of numerical and experimental techniques in the maintenance of historical structures. In this respect, the

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**papers,
originating from
over 30 countries,
are subdivided in
the following
areas: Historical
aspects and
general
methodology,
Materials and
laboratory
testing, Non-
destructive**

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**testing and
inspection
techniques,
Dynamic behavior
and structural
monitoring,
Analytical and
numerical
approaches,
Consolidation
and
strengthening
techniques,**

Page 56/184

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**Historical timber
and metal
structures,
Seismic analysis
and vulnerability
assessment,
Seismic
strengthening
and innovative
systems, Case
studies.**

**Structural
Analysis of**

Page 57/184

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**Historical
Constructions is a
valuable source
of information for
scientists and
practitioners
working on
structure-related
issues of
historical
constructions
Recommendation
s of the**

Page 58/184

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**Committee for
Waterfront
Structures
Harbours and
Waterways EAU
2004
Proceedings of
the 2nd
International
Conference on
Engineering
Sciences and
Technologies, 29**

Page 59/184

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**June - 1 July
2016, High Tatras
Mountains,
Tatranské
Matliare, Slovak
Republic
DIN 4150,3
Ground Vibration
Engineering
Proceedings of
the 10th
International
Conference on**

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**Structural
Analysis of
Historical
Constructions
(SAHC, Leuven,
Belgium, 13-15
September 2016)
Mechanisms,
Modelling and
Means of Control
Possibilities of
Numerical and
Experimental**

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**Techniques -
Proceedings of
the IVth Int.
Seminar on
Structural
Analysis of
Historical
Constructions,
10-13 November
2004, Padova,
Italy**

The objective of this
book is to fill some of

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the gaps in the existing engineering codes and standards related to soil dynamics, concerning issues in earthquake engineering and ground vibrations, by using formulas and hand calculators. The usefulness and accuracy of the

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simple analyses are demonstrated by their implementation to the case histories available in the literature. Ideally, the users of the volume will be able to comment on the analyses as well as provide more case histories of simple considerations by

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publishing their results in a number of international journals and conferences. The ultimate aim is to extend the existing codes and standards by adding new widely accepted analyses in engineering practice. The following topics

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have been considered in this volume:

- main ground motion sources and properties
- typical ground motions, recording, ground investigations and testing
- soil properties used in simple analyses
- fast sliding in non-

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liquefied soil • flow of
liquefied sandy soil •
massive retaining
walls • slender
retaining walls •
shallow foundations
• piled foundations •
tunnels, vertical
shafts and pipelines
• ground vibration
caused by industry.
Audience: This book
is of interest to

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geotechnical
engineers,
engineering
geologists,
earthquake
engineers and
students

The book reports on
the 11th International
Workshop on
Railway Noise, held
on 9 – 13
September, 2013, in

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Uddevalla, Sweden.
The event, which
was jointly organized
by the Competence
Centre Chalmers
Railway Mechanics
(CHARMEC) and the
Departments of
Applied Mechanics
and Applied
Acoustics at
Chalmers University
of Technology in

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Gothenburg,
Sweden, covered a
broad range of
topics in the field of
railway noise and
vibration, including:
prospects, legal
regulations and
perceptions; wheel
and rail noise;
prediction,
measurements and
monitoring; ground-

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borne vibration; squeal noise and structure-borne noise; and aerodynamic noise generated by high-speed trains. Further topics included: resilient track forms; grinding, corrugation and roughness; and interior noise and sound barriers. This

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book, which consists of a collection of peer-reviewed papers originally submitted to the workshop, not only provides readers with an overview of the latest developments in the field, but also offers scientists and engineers essential

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support in their daily efforts to identify, understand and solve a number of problems related to railway noise and vibration, and to achieve their ultimate goal of reducing the environmental impact of railway systems.

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Brick and Block
Masonry - Trends,
Innovations and
Challenges contains
the lectures and
regular papers
presented at the
16th International
Brick and Block
Masonry Conference
(Padova, Italy, 26-30
June 2016). In an
ever-changing world,
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in which innovations are rapidly implemented but soon surpassed, the challenge for masonry, the oldest and most traditional building material, is that it can address the increasingly pressing requirements of quality of living,

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safety, and sustainability. This abstracts volume and full paper USB device, focusing on challenges, innovations, trends and ideas related to masonry, in both research and building practice, will prove to be a valuable source of

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information for
researchers and
practitioners,
masonry industries
and building
management
authorities,
construction
professionals and
educators.

Since 1949 the
"Committee for
Waterfront

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Structures" has operated on honorary base as a committee of the Society for Harbour Engineering (HTG), Hamburg, and since 1951 also as working group of the German Society for Geotechnics (DGGT), Essen. Its full designation

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reads "Committee for Simplification and Standardization of Calculation and Construction of Waterfront Structures", which also outlines its goals. Following on from the previous joint publications, this new edition of EAU 2004 contains

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the safety concept
with partial safety
factors in
accordance with the
Eurocodes or the
European
prestandards as well
as with the new
edition of the
corresponding
German standard,
partially differing on
account of practice

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experiences. The recommendations continue to satisfy the requirements for international acknowledgement and application with regard to planning, design tendering, the awarding of contracts, building and building supervision. Further,

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the inspection and
accounting
procedures for
harbour and
waterway
constructions are
given from uniform
points of view.

Rock Fragmentation
by Blasting
Induced by Man and
Machines

11th Congress of the

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International Society
for Rock Mechanics,
3 VOLUMES + CD-
ROM

Noise and Vibration
Mitigation for Rail
Transportation
Systems

Vibrations in
Structures

Advances in
Transportation
Geotechnics IV

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Earthquake
Geotechnical
Engineering for
Protection and
Development of
Environment and
Constructions

**The so-called
fourth dimension
of a metropolis is
the underground
space beneath a
city which typically**

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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

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**focus on underg
Utilizes both
Computer- and
Hand-Based
Calculations...
Modern practice in
geomechanics is
becoming
increasingly reliant
on computer-based
software, much of
which can be
obtained through
the Internet. In**

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**Geomechanics in
Soil, Rock, and
Environmental
Engineering the
application of
these numerical
techniques is
examined not only
for soil mechanics,
but also for rock
mechanics and
environmental
applications. ... For
Use in Complex**

Page 87/184

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Analysis It deals with the modern analysis of shallow foundations, deep foundations, retaining structures, and excavation and tunneling. In recent years, the environment has become more and more important, and so it also deals

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with municipal and mining waste and solutions for the disposal and containment of the waste. Many fresh solutions to problems are presented to enable more accurate and advanced designs to be carried out. A Practical Reference

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for Industry Professionals, This Illuminating Book: Offers a broad range of coverage in soil mechanics, rock mechanics, and environmental engineering Incorporates the author's more than 40 years of academic and practical design

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**experience
Describes the
latest applications
that have emerged
in the last ten
years Supplies
references readily
available online for
further research
Geomechanics in
Soil, Rock, and
Environmental
Engineering should
appeal to students**

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in their final undergraduate course in geomechanics or master's students, and should also serve as a useful reference to practitioners in the field of geomechanics, reflecting the author's background in

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**both industry and
academia.**

**This book contains
a collection of
latest research
developments on
the urban
transportation
systems. It
describes rail
transit systems,
subways, bus rapid
transit (BRT)
systems, taxicabs,**

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**automobiles, etc.
This book also
studies the
technical
parameters and
provides a
comprehensive
overview of the
significant
characteristics for
urban
transportation
systems, including
energy**

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**management
systems, wireless
communication
systems,
operations and
maintenance
systems, transport
serviceability,
environmental
problems and
solutions,
simulation,
modelling,
analysis, design,**

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**safety and risk,
standards, traffic
congestion, ride
quality, air quality,
noise and
vibration, financial
and economic
aspects, pricing
strategies, etc.
This professional
book as a credible
source can be very
applicable and
useful for all**

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**professors,
researchers,
students,
experienced
technical
professionals,
practitioners and
others interested
in urban
transportation
systems.**

**Structural Analysis
of Historical
Constructions.**

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**Anamnesis,
diagnosis, therapy,
controls contains
the papers
presented at the
10th International
Conference on
Structural Analysis
of Historical
Constructions
(SAHC2016,
Leuven, Belgium,
13-15 September
2016). The main**

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theme of the book is “Anamnesis, Diagnosis, Therapy, Controls”, which emphasizes the importance of all steps of a restoration process in order to obtain a thorough understanding of the structural behaviour of built

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**cultural heritage.
The contributions
cover every aspect
of the structural
analysis of
historical
constructions, such
as material
characterization,
structural
modelling, static
and dynamic
monitoring, non-
destructive**

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techniques for on-site investigation, seismic behaviour, rehabilitation, traditional and innovative repair techniques, and case studies. A special focus has been put on six specific themes: - Innovation and heritage - Preventive

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**conservation -
Computational
strategies for
heritage structures
- Sustainable
strengthening of
masonry with
composites -
Values and
sustainability, and
- Subsoil
interaction The
knowledge,
insights and ideas**

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**in Structural
Analysis of
Historical
Constructions.
Anamnesis,
diagnosis, therapy,
controls make this
book of abstracts
and the
corresponding,
digital full-colour
conference
proceedings
containing the full**

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**papers must-have
literature for
researchers and
practitioners
involved in the
structural analysis
of historical
constructions.
With Equations,
Tables, Graphs and
Check Lists
Proceedings of the
16th International
Brick and Block**

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**Masonry
Conference,
Padova, Italy,
26-30 June 2016
Ground
Improvement by
Deep Vibratory
Methods
Advances in Spatio-
Temporal Analysis
Dynamic Effects of
Pile Installations
on Adjacent
Structures**

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**Proceedings of the
28th IMAC, A
Conference on
Structural
Dynamics, 2010
Practical Soil
Dynamics**

*The following are
sessions contained in
Volume 1 of these
proceedings: Bridge
management systems,
part 1; Bridge*

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aesthetics; Bridge performance; Bridge construction; Bridge management systems, Part 2; Long-span bridges; Bridge loads and dynamics; FRP composites and other materials for bridges. "This conference was organized by Instituto Superior Tecnico

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*under the auspices of:
International Society
of Soil mechanics
and Geotechnical
Engineering --
ISSMGE, TC18 on
Deep Foundations
and the Portuguese
Geotechnical
Society."--T.p. verso.
These are the
proceedings of the*

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*2nd International
Conference on
Engineering Sciences
and Technologies
(ESaT 2016), held
from 29th of June
until the 1st of July
2016 in the scenic
High Tatras
Mountains, Tatranské
Matliare, Slovak
Republic. After the*

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*successful
implementation and
excellent feedback of
the first international
conference ESaT
2015, ESaT 2016
was organized under
the auspices of the
Faculty of Civil
Engineering,
Technical University
of Košice, Slovak*

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*Republic in
collaboration with the
University of
Miskolc, Hungary.
The conference
focused on a wide
spectrum of topics
and subject areas in
civil engineering
sciences. The
proceedings bringing
new and original*

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*advances and trends
in various fields of
engineering sciences
and technologies that
accost a wide range
of academics,
scientists, researchers
and professionals
from universities and
practice. The authors
of the articles
originate from*

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*different countries
around the world
guaranteeing the
importance,
topicality, quality and
level of presented
results.*

*Railways are an
environmentally
friendly means of
transport well suited
to modern society.*

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However, noise and vibration are key obstacles to further development of the railway networks for high-speed intercity traffic, for freight and for suburban metros and light-rail. All too often noise problems are dealt with inefficiently due

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*to lack of
understanding of the
problem. This book
brings together
coverage of the
theory of railway
noise and vibration
with practical
applications of noise
control technology at
source to solve noise
and vibration*

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David Thompson is
Professor of Railway
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at the Institute of
Sound and Vibration
Research, University
of Southampton. He
has worked in the
field of railway noise
since 1980, with
British Rail Research*

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in Derby, UK, and TNO Institute of Applied Physics in the Netherlands before moving to Southampton in 1996. He was responsible for developing the TWINS software for predicting rolling noise. Discusses fully

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of the ICE
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gsprobleme in der
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Baugrunddynamik
und Manahmen des
Erschutterungsschut
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Beispielen auf. Mit
diesem Rstzeug
kann sich der
Nutzer in spezielle
Flle wie
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architects,
architectural and
geotechnical
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while there are
exemplary cases of
an integral approach
to each building
element with its
static and
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function, as a
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the culture and

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