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**N3 Building and Civil
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Technology African Books in
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for Civil and Construction
Engineers
Recent major earthquakes,
tsunamis, hurricanes,

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floods and other natural phenomena have resulted in huge losses in terms of human life and property destruction. A new range of human-made disasters have afflicted humanity in

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modern times; terrorist activities have been added to more classical disasters such as those due to the failure of industrial installations. It is important to

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understand the nature of these global risks to be able to develop strategies to prepare for these events and plan effective responses in terms of disaster management and

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the associated human health impacts. The selected papers contained in this book have been written by academics and professionals and represent some of the

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latest developments in the
field.

A List by Subject Category
BIM Teaching and Learning
Handbook

Facade Construction Manual
NBS Special Publication

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This Special Issue presents the recent advances in sensor technologies for smart homes, including fiber Bragg grating (FBG) sensors for detecting the presence and number of occupants, the Internet of things

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for monitoring CO2 concentration, and designing a novel eye-tracking system for monitoring and controlling a smart home, and infrared thermal sensors for fall detection. Such new explorations are pushing the

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boundary of sensing technologies and, thus, will have more profound implications for the future smart home. Advanced machine learning and data mining algorithms have been proposed to address sensor

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failure, appliance identification, and human activity recognition in a home environment. These results will enable a promising, sustainable deployment of sensing technologies. A novel multi-agent gamification system

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is proposed for managing tasks between household members and between families, which demonstrate another dimension of future smart home application. This Special Issue concludes with a review on sensors for

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human activity recognition. This work paves the roadmap for deploying smart home systems in different socioeconomic contexts. The whole Special Issue has significantly helped to shape our understanding of the

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strength, implications, and barriers of deploying long-term, sustainable, sensor technologies for smart homes.

This volume presents selected papers from IACMAG Symposium, The major themes

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covered in this conference are Earthquake Engineering, Ground Improvement and Constitutive Modelling. This volume will be of interest to researchers and practitioners in geotechnical and geomechanical engineering.

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Sensor Technology for Smart
Homes

Dynamics of Civil Structures,
Volume 2

Implementation for Students and
Educators

Publications of the National

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Bureau of Standards ... Catalog
NBS List of Publications
This book is a printed
edition of the Special Issue
"Structural Health
Monitoring (SHM) of Civil
Structures" that was

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published in Applied
Sciences

South Africa has made huge gains in ensuring universal enrolment for children at school, and in restructuring and recapitalising the FET

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college sector. However, some three million young people are not in education, employment or training and the country faces serious challenges in providing its youth with the pathways and

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support they need to transition successfully into a differentiated system of post-school education and training. Across nine evidence-based chapters, 17 authors offer a succinct

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overview of the different facets of post-school provision in South Africa. These include an analysis of the impact of the national qualifications system on occupational training, the

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impact of youth
unemployment, the capacity
of the post-school system to
absorb larger numbers of
young people, the
relationship between
universities and FET

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colleges, the need for more strategic public and private investment in skills development, and a youth perspective on education and training policy. The authors have a number of

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recommendations for
improving the alignment
between schooling, further
education and training, and
university education -
interventions that could
shape the future of our

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youth.

Rethinking Post-school
Education and Skills
Training

The Budget of the United
States Government

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Strategies for the
Adolescent Learner
Risk, Environment and
Modernity

Instant Access to Civil Engineering
Formulas Fully updated and packed
with more than 500 new formulas, this

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book offers a single compilation of all essential civil engineering formulas and equations in one easy-to-use reference. Practical, accurate data is presented in USCS and SI units for maximum convenience. Follow the calculation procedures inside Civil Engineering Formulas, Second

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Edition, and get precise results with minimum time and effort. Each chapter is a quick reference to a well-defined topic, including: Beams and girders
Columns Piles and piling Concrete structures
Timber engineering
Surveying Soils and earthwork
Building structures Bridges and

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suspension cables Highways and
roads Hydraulics, dams, and
waterworks Power-generation wind
turbines Stormwater Wastewater
treatment Reinforced concrete Green
buildings Environmental protection
This wide-ranging and accessible
contribution to the study of risk,

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ecology and environment helps us to understand the politics of ecology and the place of social theory in making sense of environmental issues. The book provides insights into the complex dynamics of change in risk societies'.

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and Civil Engineering

Life-Cycle of Engineering Systems:
Emphasis on Sustainable Civil

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For courses in Civil
Engineering Materials,
Construction Materials,
and Construction Methods
and Materials offered in
Civil, Environmental, or

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Construction engineering departments. This introduction gives students a basic understanding of the material selection process and the behavior

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of materials - a
fundamental requirement
for all civil and
construction engineers
performing design,
construction, and
maintenance. The authors

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cover the various materials used by civil and construction engineers in one useful reference, limiting the vast amount of information available to

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the introductory level,
concentrating on current
practices, and
extracting information
that is relevant to the
general education of
civil and construction

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engineers. A large number of experiments, figures, sample problems, test methods, and homework problems gives students opportunity for practice

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Volume is indexed by
Thomson Reuters CPCI-S
(WoS). The collection is
aimed mainly at
promoting the
development of Green

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Building, Materials and
Civil Engineering, at
strengthening
international academic
cooperation and
communication and at
exchanging new research

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ideas. These proceedings will provide readers with a broad overview of the latest advances made in the field of Buildings, Materials and Civil Engineering.

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Proceedings of the 36th
IMAC, A Conference and
Exposition on Structural
Dynamics 2018

N3 Building and Civil
Technology
Structural Health

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Monitoring (SHM) of

Civil Structures

IACMAG Symposium 2019

Volume 1

United States Civil

Aircraft Register

This guide presents research-based

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strategies that enable secondary teachers to increase adolescent learning while meeting standards by incorporating reading, writing, and critical thinking into content instruction. The selected papers in this book deal with Building Information Modelling (BIM) in Design, Construction and

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Operations. Application of BIM throughout the construction industry is progressing at an accelerated rate, with the development of new software tools. BIM has the potential to alter the way in which different specialities interact before, during and after the construction project. BIM carries the

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data set for a particular asset through its full life cycle which has important consequences for operations and maintenance as well as for infrastructure planning. BIM emergence has been the result of advanced surveying techniques, powerful computer systems, better

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visualisation tools and new communication infrastructures. The papers included in this book demonstrate the interdisciplinary character of BIM, bringing together contributions from experts in industry, practice and academia.

Study guide

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Book catalog of the Library and
Information Services Division
Statistics and Probability for
Engineering Applications
Advances in Computer Methods and
Geomechanics
Building & Civil Technology
«Facade Construction

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Manual» provides a systematic survey of contemporary expertise in the application of new materials and energy-efficient technologies in facade design. It surveys

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the facade design requirements made by various types of buildings, as well as the most important materials, from natural stone through to synthetics, and

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documents a diversity of construction forms for a wide range of building types.

Compilers and operating systems constitute the basic interfaces between a

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programmer and the machine for which he is developing software. In this book we are concerned with the construction of the former. Our intent is to provide the reader with a

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firm theoretical basis for
compiler construction and
sound engineering
principles for selecting
alternate methods, imple
menting them, and
integrating them into a

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reliable, economically viable product. The emphasis is upon a clean decomposition employing modules that can be re-used for many compilers, separation of concerns to

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facilitate team programming, and flexibility to accommodate hardware and system constraints. A reader should be able to understand the questions

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he must ask when designing a compiler for language X on machine Y, what tradeoffs are possible, and what performance might be obtained. He should not feel that any part of the

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design rests on whim; each
decision must be based
upon specific,
identifiable
characteristics of the
source and target
languages or upon design

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goals of the compiler. The vast majority of computer professionals will never write a compiler.

Nevertheless, study of compiler technology provides important

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benefits for almost everyone in the field . • It focuses attention on the basic relationships between languages and machines. Understanding of these relationships eases

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the inevitable transitions to new hardware and programming languages and improves a person's ability to make appropriate tradeoffs in design and implementation

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Proceedings of the Fifth
International Symposium on
Life-Cycle Civil
Engineering (IALCCE 2016),
16-19 October 2016, Delft,
The Netherlands

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Building Information
Systems in the
Construction Industry
Materials for Civil and
Construction Engineers
Publications of the
National Institute of

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Standards and Technology

... Catalog

The African Book

Publishing Record

Statistics and Probability for

Engineering Applications

provides a complete discussion

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of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and

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used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical

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methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of

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statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the

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basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each

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section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering

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students and students taking
computer science/computer
engineering graduate courses;
scientists needing to use applied
statistical methods; and
engineering technicians and
technologists. * Filled with

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practical techniques directly
applicable on the job * Contains
hundreds of solved problems
and case studies, using real data
sets * Avoids unnecessary
theory

Dynamics of Civil Structures,

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Volume 2: Proceedings of the 36th IMAC, A Conference and Exposition on Structural Dynamics, 2018, the second volume of nine from the Conference brings together contributions to this important

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area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures, including papers on: Modal Parameter

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Identification Dynamic Testing of
Civil Structures Control of
Human Induced Vibrations of
Civil Structures Model Updating
Damage Identification in Civil
Infrastructure Bridge Dynamics
Experimental Techniques for

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Civil Structures Hybrid
Simulation of Civil Structures
Vibration Control of Civil
Structures System Identification
of Civil Structures
Disaster Management
Basic Civil Engineering

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Author-title-series indexes

Shaping the Future of South
Africa's Youth

N3 Building & Civil Technology

This volume contains the papers

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presented at IALCCE2016, the fifth International Symposium on Life-Cycle Civil Engineering (IALCCE2016), to be held in Delft, The Netherlands, October 16-19, 2016. It consists of a book of extended abstracts and a DVD with full papers including the

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Fazlur R. Khan lecture, keynote lectures, and technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special focus on structural damage processes, life-cycle design, inspection, monitoring, assessment,

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**maintenance and rehabilitation,
life-cycle cost of structures and
infrastructures, life-cycle
performance of special
structures, and life-cycle
oriented computational tools.
The aim of the editors is to
provide a valuable source for**

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**anyone interested in life-cycle of
civil infrastructure systems,
including students, researchers
and practitioners from all areas
of engineering and industry.
This book is the essential guide
to the pedagogical and industry-
inspired considerations that must**

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shape how BIM is taught and learned. It will help academics and professional educators to develop programmes that meet the competences required by professional bodies and prepare both graduates and existing practitioners to advance the

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industry towards higher efficiency and quality. To date, systematic efforts to integrate pedagogical considerations into the way BIM is learned and taught remain non-existent. This book lays the foundation for forming a benchmark around

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which such an effort is made. It offers principles, best practices, and expected outcomes necessary to BIM curriculum and teaching development for construction-related programs across universities and professional training

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programmes. The aim of the book is to: Highlight BIM skill requirements, threshold concepts, and dimensions for practice; Showcase and introduce tried-and-tested practices and lessons learned in developing BIM-related curricula from

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leading educators; Recognise and introduce the baseline requirements for BIM education from a pedagogical perspective; Explore the challenges, as well as remedial solutions, pertaining to BIM education at tertiary education; Form a

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**comprehensive point of
reference, covering the essential
concepts of BIM, for students;
Promote and integrate
pedagogical consideration into
BIM education. This book is
essential reading for anyone
involved in BIM education, digital**

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**construction, architecture, and
engineering, and for
professionals looking for
guidance on what the industry
expects when it comes to BIM
competency.**

**Towards a New Ecology
Building and Civil Technology**

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**Civil Engineering Formulas
Publications
Compiler Construction**