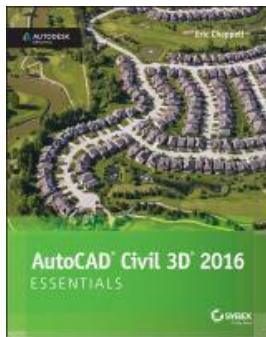


CIVIL ENGINEERING

SCOPE

Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works like bridges, roads, canals, dams and buildings. Civil engineering is the oldest engineering discipline after military engineering, and it was defined to distinguish non-military engineering from military engineering. It is traditionally broken into several sub-disciplines including environmental engineering, geotechnical engineering, structural engineering, transportation engineering, municipal or urban engineering, water resources engineering, materials engineering, coastal engineering, surveying, and construction engineering. Civil engineering takes place on all levels: in the public sector from municipal through to federal levels, and in the private sector from individual homeowners through to international companies. [Source: smweng.com]



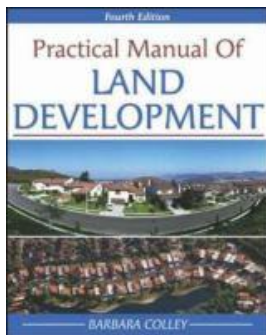
AutoCAD civil 3D 2016: essentials (2015)

Chappell, Eric

CO TA 345.5 .C43 2015

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Start designing today with this hands-on beginner's guide to AutoCAD Civil 3D 2016. This book gets you quickly up to speed with the features and functions of this industry-leading civil engineering software.



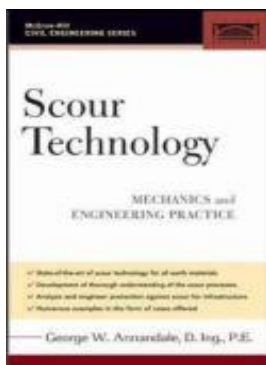
Practical manual of land development (2005)

Colley, Barbara C.

CO TA 151 C65 2005

Located in Fr Jose T Bacatan SJ Library – Circulation Section

A quick easy reference to help solve your everyday site and land development design problems.



Scour Technology: mechanics and engineering practice (2006)

Annandale, George W.

CO TC 180 A56 2006

Located in Fr Jose T Bacatan SJ Library – Circulation Section

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Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING

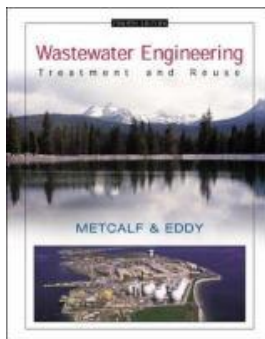


Standard handbook for civil engineers (2003)

Ricketts, Jonathan T., M. Kent Loftin, Frederick S. Merritt

CO-R TA 151 S76 2003

Located in Fr Jose T Bacatan SJ Library – Reference Section



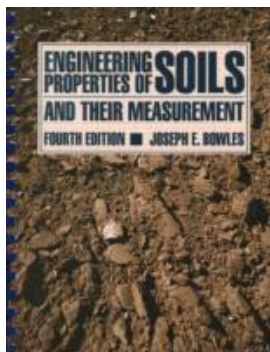
Wastewater engineering: treatment and reuse (2003)

George Tchobanoglous, Franklin L. Burton and H. David Stensel.

CO TD 645 .W37 2003

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Focuses on wastewater treatment for civil and environmental engineering majors. This title describes the technological and regulatory changes that have occurred in this discipline, including: improved techniques for the characterization of wastewaters; and, improved fundamental understanding of many of the existing unit operations and processes.



Engineering properties of soils and their measurement (1992)

Bowles, Joseph E.

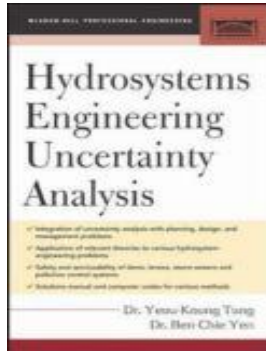
CO TA 710.5 B68 1992

This manual is intended as a text supplement for the laboratory portion of a course in soil mechanics, geotechnical engineering or engineering properties of soils. It is suited for either a first or second course in the subject taught at the junior, senior, or graduate level and contains enough material for two courses. This manual has been widely used in previous editions and, in this edition, has been substantially rewritten for a more logical flow of topics as well as to reflect the latest industry standards and the use of the computer.

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CIVIL ENGINEERING



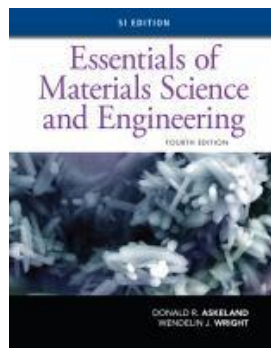
Hydrosystems engineering uncertainty analysis (2005)

Yeou-Koung Tung and Ben-Chie Yen.

CO TC 180 T86 2005

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Learn how to use the statistical tools of uncertainty analysis to plan, design, and manage hydrosystem problems.



Essentials of materials science and engineering (2019)

Askeland, Donald R., Wendelin J. Wright

CO TA 403 .A84 2019

Located in Fr Jose T Bacatan SJ Library – Circulation Section

This text provides students with a solid understanding of the relationship between the structure, processing, and properties of materials. Authors Askeland and Wright present the fundamental concepts of atomic structure and the behavior of materials and clearly link them to the "materials" issues that students will have to deal with when they enter the industry or graduate school (e.g. design of structures, selection of materials, or materials failures). Fundamental concepts are linked to practical applications, emphasizing the necessary basics without overwhelming the students with too much of the underlying chemistry or physics.



Advanced mathematical techniques in engineering sciences (2018)

Ram, Mangey, J. Paulo Davim

CO TA 330 .A38 2018

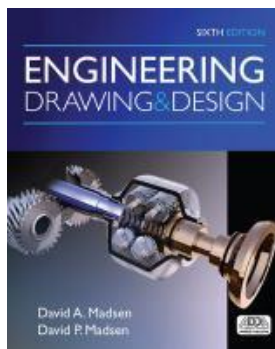
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Mathematical techniques are the strength of engineering sciences and form the common foundation of all novel discipline as engineering sciences. The book Advanced Mathematical Techniques in Engineering Sciences involved in an ample range of mathematical tools and techniques applied in various fields of engineering sciences. Through this book the engineers have to gain a greater knowledge and help them in the applications of mathematics in engineering sciences.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

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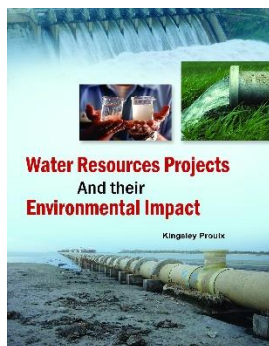
Engineering drawing & design (2017)

Madsen, David A., David P. Madsen

CO T 353 .M33 2017

Located in Fr Jose T Bacatan SJ Library – Circulation Section

For more than 25 years, students have relied on this trusted text for easy-to-read, comprehensive drafting and design instruction that complies with the latest ANSI and ASME industry standards for mechanical drafting. The Sixth Edition of ENGINEERING DRAWING AND DESIGN continues this tradition of excellence with a multitude of real, high-quality industry drawings and more than 1,000 drafting, design, and practical application problems--including many new to the current edition. The text showcases actual product designs in all phases, from concept through manufacturing, marketing, and distribution. In addition, the engineering design process now features new material related to production practices that eliminate waste in all phases, and the authors describe practices to improve process output quality by using quality management methods to identify the causes of defects, remove them, and minimize manufacturing variables.

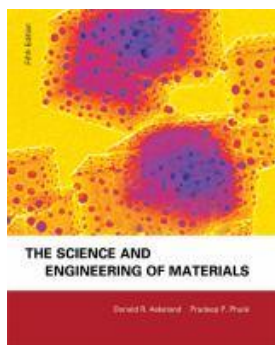


Water resources projects and their environment impact (2013)

Proulx, Kingsley

CO TD 195.W3 P76 2013

Located in Fr Jose T Bacatan SJ Library – Circulation Section



The science and engineering of materials (2006)

Askeland, Donald R., Pradeep P. Phule

CO TA 403 A84 2006

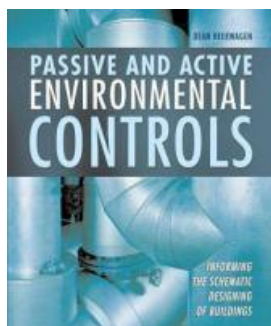
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Provides an understanding of the relationship between structure, processing, and properties of materials. This text provides a general overview of materials, concentrates on mechanical behavior, or focuses on physical properties. It is also useful as a reference for courses in manufacturing, materials, design, or materials selection.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

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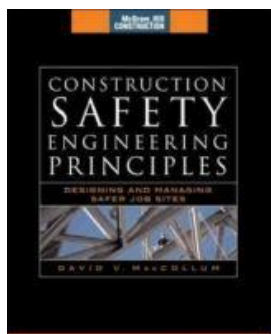
Passive and active environmental controls: informing the schematic designing of buildings (2004)

Heerwagen, Dean

CO TH 6021 H43 2004

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Passive and Active Environmental Controls: Informing the Schematic Designing of Buildings is written for the architecture audience. It primarily addresses how to design and construct buildings to satisfy occupant physical and physiological needs. The text serves as an introduction to the subject of environmental controls and presents information necessary for the schematic design of buildings. It describes the various components of a particular system, developing how a system functions, how the systems components fit together and how spaces are organized to accommodate these components. The book demonstrates how each system is integrated with other building systems, such as the structural systems and the overall architecture of the building.



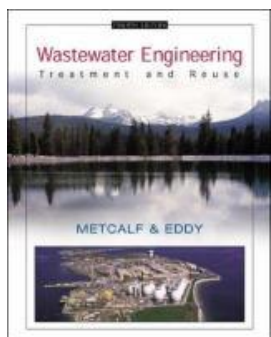
Construction safety engineering principles: designing and managing safer job sites (2007)

MacCollum, David V.

CO TH 443 M33 2007

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Removing major hazards from the construction site before the workers arrive is smarter, easier, and more cost-effective than controlling worker behavior on a dangerous site. This resource provides a step-by-step method for identifying and controlling hazards before construction begins.



Waterwaste engineering: treatment and reuse (2003)

George Tchobanoglous, Franklin L. Burton and H. David Stensel.

CO TD 645 .W37 2003

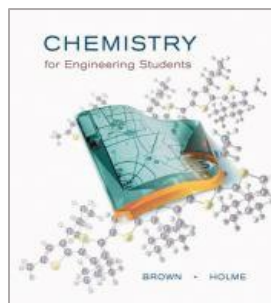
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Focuses on wastewater treatment for civil and environmental engineering majors. This title describes the technological and regulatory changes that have occurred in this discipline, including: improved techniques for the characterization of wastewaters; and, improved fundamental understanding of many of the existing unit operations and processes.

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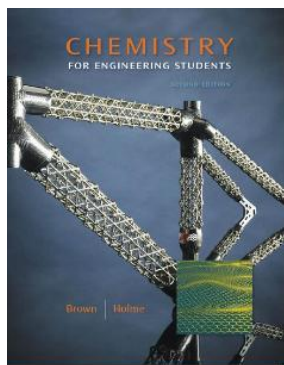
Chemistry for engineering students (2006)

Brown, Lawrence S.

CO QD 31.2 B76 2006

Located in Fr Jose T Bacatan SJ Library – Circulation Section

To be an engineering major, you'll need a solid comprehension of basic chemistry. CHEMISTRY FOR ENGINEERING STUDENTS explains chemistry from your angle, demonstrating how it's relevant to the various engineering fields. From this molecular level to the macro level, this chemistry textbook connects chemistry to math and physics so you won't be confused. And with tons of study tools built right in, this textbook helps you make sure you've mastered the material for the test.



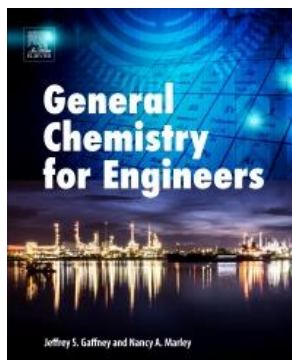
Chemistry for engineering students (2011)

Brown, Lawrence S., Thomas A. Holme

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Enhanced with a remarkable number of new problems and applications, the Second Edition of CHEMISTRY FOR ENGINEERS provides a concise, thorough, and relevant introduction to chemistry that prepares students for further study in any engineering field. Updated with even more questions and applications specifically geared toward engineering students, this edition emphasizes the connection between molecular properties and observable physical properties and the connections between chemistry and other subjects studied by engineering students, such as mathematics and physics. This new edition is now fully supported by OWL, the most widely-used online learning system for chemistry.



General Chemistry for engineers (2018)

Gaffney, Jeffrey S., Nancy A. Marley

In process

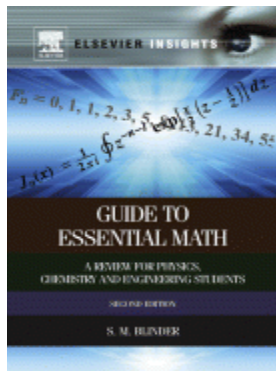
Located in Fr Jose T Bacatan SJ Library – Circulation Section

General Chemistry for Engineers explores the key areas of chemistry needed for engineers. This book develops material from the basics to more advanced areas in a systematic fashion. As the material is presented, case studies relevant to engineering are included that demonstrate the strong link between chemistry and the various areas of engineering.

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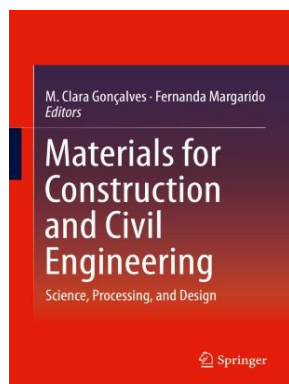
Guide to essential math: a review for physics, chemistry and engineering students (2013)

Blinder, S.M.

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

This book reminds students in junior, senior and graduate level courses in physics, chemistry and engineering of the math they may have forgotten (or learned imperfectly) that is needed to succeed in science courses. The focus is on math actually used in physics, chemistry, and engineering, and the approach to mathematics begins with 12 examples of increasing complexity, designed to hone the student's ability to think in mathematical terms and to apply quantitative methods to scientific problems. Detailed illustrations and links to reference material online help further comprehension. The second edition features new problems and illustrations and features expanded chapters on matrix algebra and differential equations.



Materials for construction and civil engineering: science, processing, and design (2015)

Goncalves, M. Clara, Fernanda Margarido (Editors)

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Provides a substantial and detailed overview of traditional materials used in structures and civil infrastructure. Discusses properties of natural and synthetic materials in construction and materials' manufacturing processes. Addresses topics important to professionals working with structural materials, such as corrosion, nanomaterials, materials life cycle, not often covered outside of journal literature. Diverse author team presents expert perspective from civil engineering, construction and architecture.

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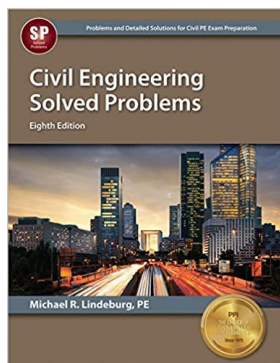
Emerging trends in civil engineering: select proceeding of ICETCE 2018 (2020)

Babu, Ganesh K., H. Sudarsana Rao, Y. Amarnath (editors)

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

This book comprises select papers from the International Conference on Emerging Trends in Civil Engineering (ICETCE 2018). Latest research findings in different branches of civil engineering such as structural engineering, construction materials, geotechnical engineering, water resources engineering, environmental engineering, and transportation infrastructure are covered in this book. The book also gives an overview of emerging topics like smart materials and structures, green building technologies, and intelligent transportation system. The contents of this book will be beneficial for students, academicians, industrialists and researchers working in the field of civil engineering.



Civil engineering solved problems (2016)

Lindeburg, Michael R.

In process

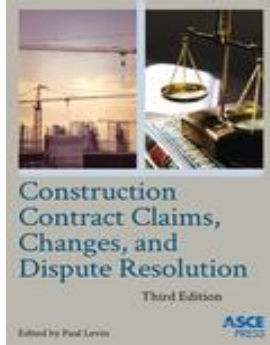
Located in Fr Jose T Bacatan SJ Library – Circulation Section

Civil Engineering Solved Problems includes more than 370 problem scenarios representing a broad range of the NCEES Civil PE exam topics. The problem scenarios are instructionally designed so that you learn how to identify and apply related concepts and equations. The breadth of topics covered and the varied complexities of the problems allow you to assess and strengthen your problem-solving skills. Step-by-step solutions demonstrate accurate, efficient solving methods. Solutions also reference exam-adopted codes and standards, so you can learn where to find required information and how to efficiently use your resources.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

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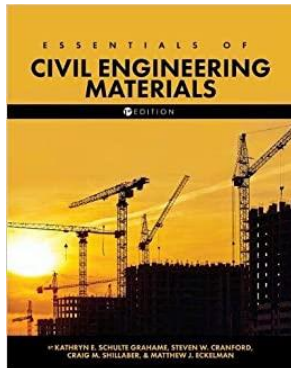
Construction contract claims, changes, and dispute resolution (2016)

Levin, Paul (editor)

In process

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Construction Contract Claims, Changes, and Dispute Resolution is the go-to handbook for those involved in the prevention, preparation, management, and resolution of claims and change orders on construction projects. For more than 40 years, engineers, contractors, owners, and construction managers have turned to this practical guide and its straightforward, clear approach to solving challenges in construction claims and changes. Thoroughly revised and completely updated, this third edition adds the expertise of more than 30 attorneys and construction consultants who are recognized authorities in the field. Their contributions merge principles of construction law with practical advice. [Foreword by Islam H. El-adaway, Ph.D.]



Essentials of civil engineering materials (2020)

Grahame, Kathryn E. Schulte [and three others]

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

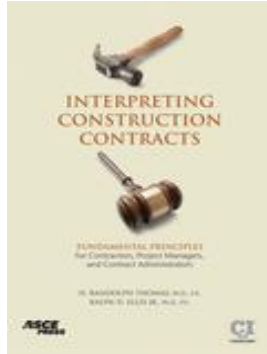
Essentials of Civil Engineering Materials provides students with a foundational guide to the types of materials used in civil engineering, as well as how these materials behave under the conditions for which they were designed and a basic understanding of the science of the materials. This critical knowledge prepares students to carefully consider and confidently select the best materials for the design, construction, and maintenance of future projects.

The text begins by introducing the basic requirements of engineering materials, material properties and standards, experimental design, economic factors, and the issue of sustainability. Additional chapters explore the mechanical principles of materials, composite models and viscoelasticity, and material chemistry. Students read about various types of materials, including metals, steel, aggregates and cementitious materials, and wood. The book concludes with a chapter dedicated to the topic of sustainability. Each chapter includes closing remarks to summarize the key concepts of the chapter and problems to help students retain important learnings. Essentials of Civil Engineering Materials is an ideal resource for introductory courses in civil engineering.

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CIVIL ENGINEERING



Interpreting construction contracts: fundamental principles for contractors, project managers, and contract administrators (2007)

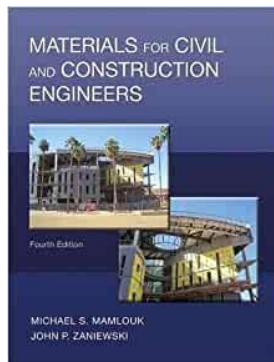
Thomas, H. Randolph, Ralph D. Ellis Jr.

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Every day, engineers and managers are called upon to understand and execute the terms of construction contracts. Often, these professionals have little or no legal training and find themselves relying upon intuition, common sense or hearsay—with possibly unfortunate and expensive results.

In *Interpreting Construction Contracts*, Thomas and Ellis seek to rescue contractors, project managers, and contract administrators struggling to interpret construction contracts. Using rules set forth by the judiciary and drawing upon decades of legal research and practical experience, the authors discuss the most troublesome contract clauses and present rules to construe them so as to avoid disputes that must be resolved in court. Diagrams, case studies, and more than 70 discussion exercises and solutions are provided to reinforce the principles introduced in each chapter. As clear as it is pragmatic, *Interpreting Construction Contracts* is a welcome teaching resource and an essential reference for engineers and managers working in the construction industry.



Materials for civil and construction engineers (2017)

Mamlouk, Michael S., John P. Zaniewski

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

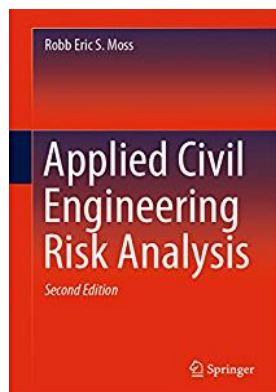
Materials for Civil and Construction Engineers helps readers understand and select the materials involved in supporting the infrastructure needs of society—from buildings, to water and treatment distribution systems, to dams, highways, and airport pavements. By gaining a deep understanding of material behavior and the material selection process, readers can begin to understand how to create and maintain civil and construction engineering systems crucial to society.

The primary focus of the updates presented in this fourth edition was on the sustainability of materials used in civil and construction engineering. The information on sustainability was updated and expanded to include the most recent information. In addition, sections were added describing the sustainability considerations of each material. The problem set for each chapter was updated and increased to provide some fresh exercises. References were updated and increased in all chapters to provide students with additional reading on current issues related to different materials.

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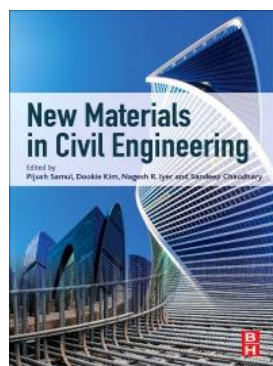
Applied civil engineering risk analysis (2013)

Moss, Robb Eric S.

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

This updated edition retains its introduction to applied fundamental statistics, probability, reliability, and decision theory as these pertain to problems in Civil Engineering. The new edition adds an expanded treatment of systems reliability, Bayesian methods, and spatial variability, along with additional example problems throughout. The book provides readers with the tools needed to determine the probability of failure, and when multiplied by the consequences of failure, illustrates how to assess the risk of civil engineering problems. Presenting methods for quantifying uncertainty that exists in engineering analysis and design, with an emphasis on fostering more accurate analysis and design, the text is ideal for students and practitioners of a range of civil engineering disciplines.



New materials in civil engineering (2020)

Samul, Pijush [and three others]

In process

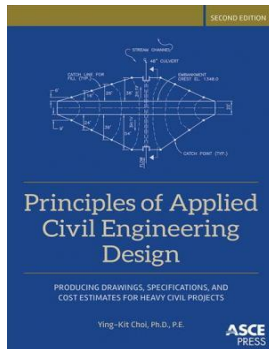
Located in Fr Jose T Bacatan SJ Library – Circulation Section

New Materials in Civil Engineering provides engineers and scientists with the tools and methods needed to meet the challenge of designing and constructing more resilient and sustainable infrastructures. This book is a valuable guide to the properties, selection criteria, products, applications, lifecycle and recyclability of advanced materials. It presents an A-to-Z approach to all types of materials, highlighting their key performance properties, principal characteristics and applications. Traditional materials covered include concrete, soil, steel, timber, fly ash, geosynthetic, fiber-reinforced concrete, smart materials, carbon fiber and reinforced polymers. In addition, the book covers nanotechnology and biotechnology in the development of new materials.

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CIVIL ENGINEERING



Principles of applied civil engineering design: producing drawings, specifications, and cost estimates for heavy civil projects (2017)

Ying-Kit Choi

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

Principles of Applied Civil Engineering Design: Producing Drawings, Specifications, and Cost Estimates for Heavy Civil Projects walks engineers through standard practice and basic principles needed to prepare quality design and construction documents for a successful infrastructure project. Drawing on more than 30 years of engineering and design experience, Ying-Kit Choi helps readers understand the interrelationships among contract documents, site characterization, design and construction documents, and construction cost estimates.

Choi introduces the fundamentals and process of applied engineering design, including the necessary field investigations to characterize a project site. He provides pragmatic guidance on the "how-to" of producing construction drawings, with advice on graphical representation; legends, abbreviations, and notes; drawing techniques and software; and certification of construction drawings. He offers a wealth of details on developing technical specifications, including good writing practices, types of construction specifications, the standardized Construction Specifications Institute format, measurement and payment provisions, and reference data. Chapters on cost estimating cover quantity estimates, pricing estimates, allowances and contingencies, and bid evaluation. A handy glossary defines common terms.

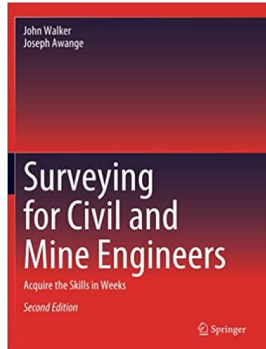
This second edition reflects the rapid changes in the methods and tools used to produce design drawings, updating the discussions of presentation formats and technical resources. Of particular interest, the 2014 Construction Specifications Institute format is introduced for use in preparing specifications and estimating construction costs. Nine chapters encourage readers to test their comprehension with example problems and solutions.

By setting out the guidelines, principles, and philosophy needed to produce design and construction documents for heavy civil projects, Choi assembles an excellent introduction for civil engineering students and young professionals, as well as provides a valuable reference for experienced design engineers, contractors, and project owners.

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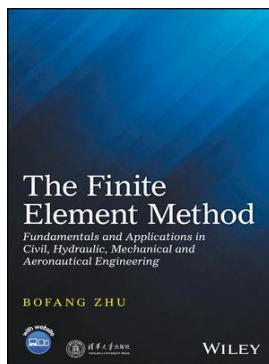
Surveying for civil and mine engineers: theory, workshops, and practicals (2018)

Walker, John, Joseph L. Awange

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

This updated and expanded edition of the book includes four additional chapters on earthwork on sloping sites; transitional curves and super elevation; calculations of super elevations on composite curves; and underground mine surveying. Richly illustrated with diagrams, equations and tables as well as examples of every day survey tasks. It also covers new topics, such as the global navigation satellite system's (Real Time Kinematic-RTK), which are increasingly used in a wide range of everyday engineering applications.



The finite element method: fundamentals and applications in civil, hydraulic, mechanical and aeronautical engineering (2018)

Zhu, Bofang

In process

Located in Fr Jose T Bacatan SJ Library – Circulation Section

A comprehensive review of the Finite Element Method (FEM), this book provides the fundamentals together with a wide range of applications in civil, mechanical and aeronautical engineering. It addresses both the theoretical and numerical implementation aspects of the FEM, providing examples in several important topics such as solid mechanics, fluid mechanics and heat transfer, appealing to a wide range of engineering disciplines. Written by a renowned author and academician with the Chinese Academy of Engineering, The Finite Element Method would appeal to researchers looking to understand how the fundamentals of the FEM can be applied in other disciplines. Researchers and graduate students studying hydraulic, mechanical and civil engineering will find it a practical reference text.

Search library resources at: <http://210.213.146.180:8080/#section=home>

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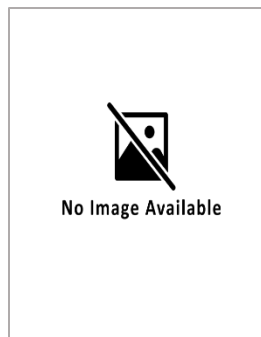


Canadian Journal of Civil Engineering

Full-text available from 2001 to present

Available in elibraryUSA (Gale Academic OneFile) and EBSCO E-journals

Publishes articles in the engineering fields of structure, construction, mechanics, materials, transportation, computer applications, hydrotechnical & environmental engineering.



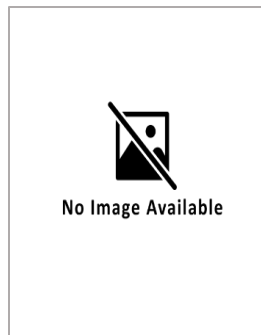
Civil Engineering

American Society of Civil Engineers

Full-text available from 1997 to 2018

Available in elibraryUSA (Gale Academic OneFile) and EBSCO E-journals

Articles concerned with civil engineering projects, engineering news and applications, new products and applications and recent court decisions of interest to civil engineers.

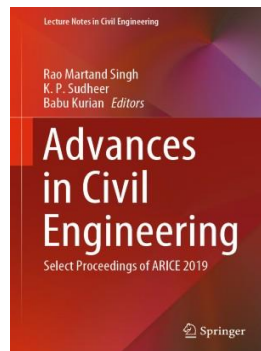


ISRN Civil Engineering

Full-text available from 2011 to 2014

Available in EBSCO E-journals

Covers research in all areas of civil engineering and includes review articles.



Advances in Civil Engineering

Full-text available from 2008 to present

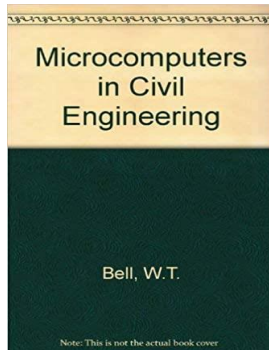
Available in elibraryUSA (Gale Academic OneFile) and EBSCO E-journals

Publishes original research on all areas of civil engineering.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

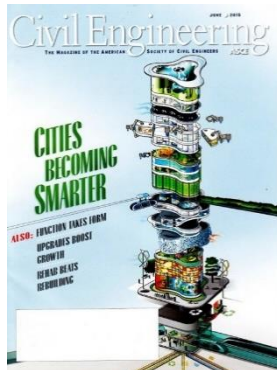
CIVIL ENGINEERING



Microcomputers in Civil Engineering

Full-text available from 1997 to present
Available in EBSCO E-journals

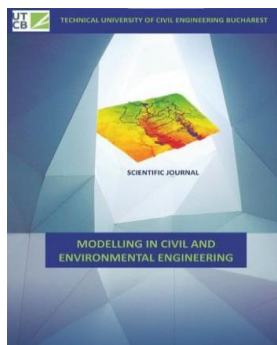
Academic journal for civil engineering and computer science.



Magazine of Civil Engineering

Full-text available from 2012 to present
Available in EBSCO E-journals

Civil Engineering is the premier magazine of the civil engineering profession and presents information about significant projects, events, and issues of interest to civil engineers. Although it is not a technical publication, the magazine covers topics in depth and the mix of articles included in each issue is designed to appeal to a broad range of readers, who represent the full spectrum of civil engineering disciplines.



Mathematical Modeling in Civil Engineering

Full-text available from 2010 to present
Available in EBSCO E-journals

Publishes articles, conference reports and review articles in civil engineering.



Journal of Civil Engineering and Management

Full-text available from 2004 to present
Available in eLibraryUSA (Gale Academic OneFile and EBSCO E-journals)

Fields of research concerning building materials, structure mechanics, road and bridge engineering and more.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING

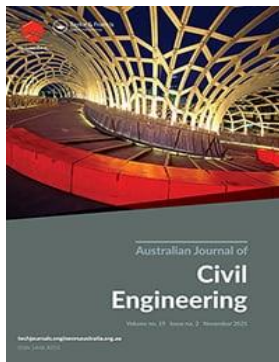


Journal of Materials in Civil Engineering

Full-text available from 1995 to present

Available in eLibraryUSA (Gale Academic OneFile0 and EBSCO E-journals)

Disseminates information relating to the development of new civil engineering materials, processing and field production of the materials, evaluation of construction materials, properties, and application and performance of civil engineering materials.

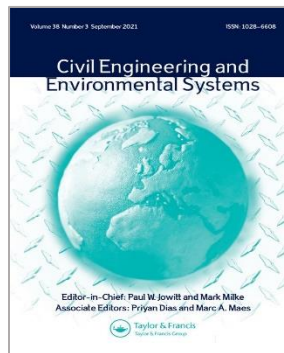


Australian Journal of Civil Engineering

Full-text available from 2010 to 2015

Available in eLibraryUSA (Gale Academic OneFile) and EBSCO E-journals

Covers areas such as water engineering, ports and harbors, geotechnical engineering, mining engineering, infrastructure and building, planning and policy, heritage sustainability and life cycle asset management.



Civil Engineering & Environmental Systems

Full-text available from 2002 to present

Available in EBSCO E-journals

Concerned with systems techniques and their underlying assumptions through the spectrum of civil engineering activity and environmental decision-making and management.



Journal of Computing in Civil Engineering

Full-text available from 1995 to 2018

Available in eLibraryUSA (Gale Academic OneFile) and EBSCO E-journals

Covers state of the art computing in civil engineering practices. Papers describe innovative projects that have implications of civil engineering practice.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING



Texas Civil Engineer

Full-text available from 2013 to present
Available in EBSCO E-journals

Highlights civil engineering topics for the state of Texas, including legislative and regional issues.



Journal of Surveying Engineering

Full-text available from 1995 to 2014
Available in EBSCO E-journals

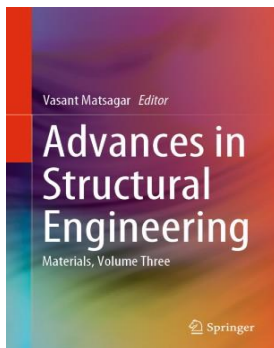
Covers developments in surveying and mapping; cartographic, geodetic, oceanographic and interplanetary surveying.



Journal of Structural Engineering

Full-text available from 1995 to 2014
Available in EBSCO E-journals

Journal advances the science of structural design. Topics include design, erection and safety of structures ranging from bridges to transmission towers and tall buildings.



Advances in Structural Engineering

Full-text available from 2007 to present
Available in EBSCO E-journals

Concerned with all aspects of structural engineering, including analysis, behavior, design and construction; aims to provide research directed at the solution of engineering problems which arise from challenging construction projects.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

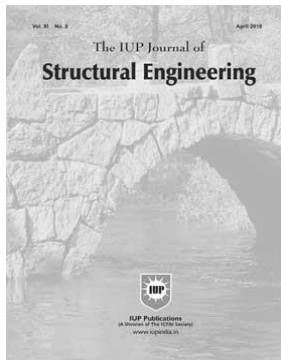
CIVIL ENGINEERING



Journal of Bridge Engineering

Full-text available from 1996 to present
Available in EBSCO E-journals

Provides a forum for the exchange of information among practicing bridge engineers, constructors & researchers.



IUP Journal of Structural Engineering

Full-text available from 2010 to present
Available in EBSCO E-journals

A 'peer reviewed' journal distributed by EBSCO and Proquest Database

Structural engineering is usually considered as a specialty discipline within civil engineering, but can also be studied in its own right. It is the science and art of designing and making buildings, bridges, frameworks and other similar structures. It has taken a completely different path since the middle of the 20th century. It involves understanding the load-resisting properties of components such as beams, columns, walls, slabs, plates, arches, shells, catenaries, etc., and selecting, proportioning, and connecting different components of a structure to resist the forces and displacements without affecting the safety of the structure. Structural Engineers are responsible for using funds, structural elements and materials creatively and efficiently. In recognition of the growing importance of this branch of engineering, IUP has come up with a quarterly journal, The IUP Journal of Structural Engineering.



Journal of Construction Engineering & Management

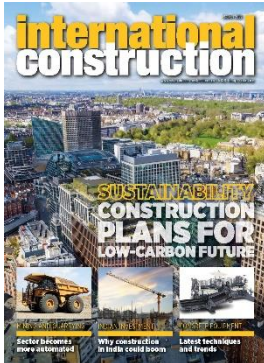
Full-text available from 1995 to 2014
Available in EBSCO E-journals

Articles and commentary on construction equipment and techniques, defines construction terms and encourages education and research in construction engineering and management.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

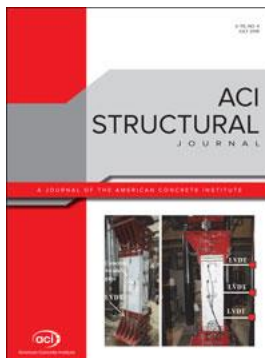
CIVIL ENGINEERING



International Construction

Full-text available from 1997 to present
Available in EBSCO E-journals

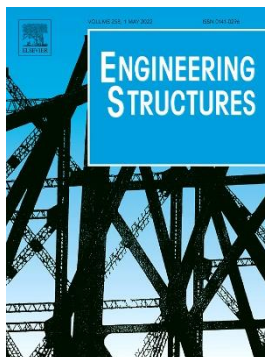
Provides bibliographic references with abstracts to articles published worldwide in journals and series, books, conference proceedings, reports, theses, and other non-conventional literature covering construction and construction related topics.



ACI Structural Journal

Full-text available from 2009 to present
Available in EBSCO E-journals

Addresses structural research, materials research, design theory, structural analysis and state-of-the-art reviews.



Engineering Structures

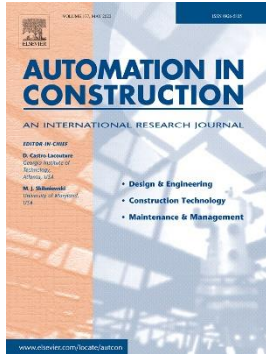
Full-text available from 1978 to present
Available in ScienceDirect E-journals

Engineering Structures provides a forum for a broad blend of scientific and technical papers to reflect the evolving needs of the structural engineering and structural mechanics communities. Particularly welcome are contributions dealing with new developments or innovative applications of structural and mechanics principles and digital technologies for the analysis and design of engineering structures. The journal aspires to a broad and integrated coverage of these principles and technologies to structures and structural components, considering all classes of engineering structural materials (steel, steel and fiber reinforced concrete, composite, masonry, glass, wood, novel (smart) materials such as nanomaterials and bio-inspired materials).

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

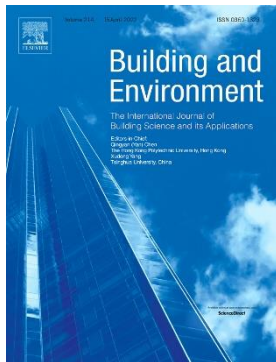
CIVIL ENGINEERING



Automation in Construction

Full-text available from 1992 to present
Available in ScienceDirect E-journals

Automation in Construction is an international journal for the publication of original research papers. The journal publishes refereed material on all aspects pertaining to the use of Information Technologies in Design, Engineering, Construction Technologies, and Maintenance and Management of Constructed Facilities. The scope of Automation in Construction is broad, encompassing all stages of the construction life cycle from initial planning and design, through construction of the facility, its operation and maintenance, to the eventual dismantling and recycling of buildings and engineering structures.



Building and Environment

Full-text available from 1976 to present
Available in ScienceDirect E-journals

Building and Environment is an international journal that publishes original research papers and review articles related to building science, urban physics, and human interaction with the indoor and outdoor built environment.



Journal of Building Engineering

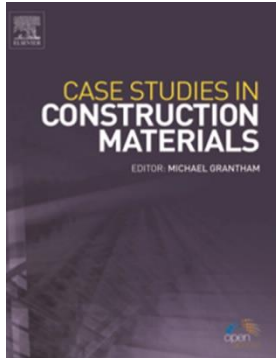
Full-text available from 2015 to present
Available in ScienceDirect E-journals

The Journal of Building Engineering (JOBE) is an interdisciplinary journal that covers all aspects of science and technology concerned with the whole life cycle of the built environment; from the design phase through to construction, operation, performance, maintenance and its deterioration. JOBE only publishes papers where significant scientific novelty is clearly demonstrated.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING



Case Studies in Construction Materials

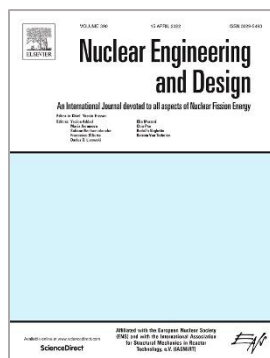
Full-text available from 2014 to present

Available in ScienceDirect E-journals

Case Studies in Construction Materials provides a forum for the rapid publication of short, structured Case Studies on construction materials and related Short Communications, specialising in actual case studies involving real construction projects. CSCM provides an essential compendium of case studies for practicing engineers, designers, researchers and other practitioners who are interested in all aspects construction materials. The journal will publish new and novel case studies, but will also provide a forum for the publication of high quality descriptions of classic construction material problems and solutions related to actual projects.

Case Studies in Construction Materials covers a wide range of materials and technology including: cement, concrete, reinforcement, bricks and mortars, additives, corrosion technology, ceramics, timber, steel, polymers, glass fibres, recycled materials and by-products, sealants, and adhesives.

The scope of Case Studies in Construction Materials includes, but is not restricted to, new works and repair and maintenance of the following: bridges, high-rise buildings, dams, civil engineering structures, silos, highway pavements, tunnels, water containment structures, sewers, roofing, housing, coastal defences.



Nuclear Engineering and Design

Full-text available from 1996 to present

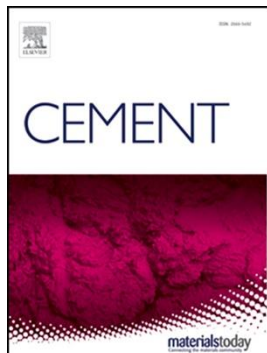
Available in ScienceDirect E-journals

Nuclear Engineering and Design covers the wide range of disciplines involved in the engineering, design, safety and construction of nuclear fission reactors. The Editors welcome papers both on applied and innovative aspects and developments in nuclear science and technology.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

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Cement

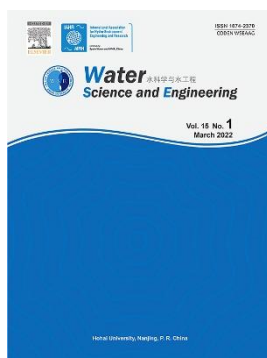
Full-text available from 2020 to present

Available in ScienceDirect E-journals

Cement is a vital component of concrete, the most used human-made material on the planet. Roughly half of all products manufactured every year are comprised of cementitious materials. It is crucial and exciting to have an open access journal detailing the most innovative findings including translational research regarding cementitious binders. The aim of CEMENT is to broadly disseminate innovative research related to cementitious binders, concrete and composites incorporating these binders (e.g. reinforced concrete) in an open access format.

Scope:

The journal will focus on thematic areas related to cement and the influence of the binder characteristics on cement-based composites including sustainability, durability, and innovative solutions, with an emphasis on increasing understanding and rapid translation of high-impact research.



Water Science and Engineering

Full-text available from 2008 to present

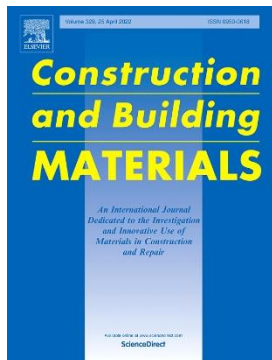
Available in ScienceDirect E-journals

Water Science and Engineering journal is an international, peer-reviewed research publication covering new concepts, theories, methods, and techniques related to water issues. The journal aims to publish research that helps advance the theoretical and practical understanding of water resources, aquatic environment, aquatic ecology, and water engineering, with emphases placed on the innovation and applicability of science and technology in large-scale hydropower project construction, large river and lake regulation, inter-basin water transfer, hydroelectric energy development, ecological restoration, the development of new materials, and sustainable utilization of water resources.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING



Construction and Building Materials

Full-text available from 1981 to present

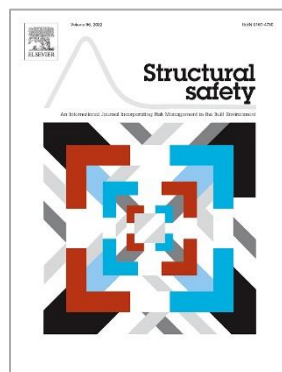
Available in EBSCO E-journals

An international journal dedicated to the investigation and innovative use of materials in construction and repair.

Construction and Building Materials provides an international forum for the dissemination of innovative and original research and development in the field of construction and building materials and their application in new works and repair practice. The journal publishes a wide range of innovative research and application papers which describe laboratory and to a limited extent numerical investigations or report on full scale projects. Multi-part papers are discouraged.

Construction and Building Materials also publishes detailed case studies and some incisive review articles that contribute new understandings. We are focusing on construction materials papers and we exclude papers on structural engineering, geotechnics and unbound highway layers. The construction materials and technology covered include: cement, concrete reinforcement, bricks and mortars, additives, corrosion technology, ceramics, timber, steel, polymers, glass fibres, recycled materials, bamboo, rammed earth, non-conventional building materials, bituminous materials and railway material applications.

The scope of Construction and Building Materials includes, but is not restricted to, materials, NDT and monitoring aspects of new works and repair and maintenance of the following: bridges, high-rise buildings, dams, civil engineering structures, silos, highway pavements, tunnels, water containment structures, sewers, roofing, housing, coastal defences and railways.



Structural Safety

Full-text available from 1982 to present

Available from ScienceDirect E-journals

Structural Safety is an international journal devoted to integrated risk assessment for a wide range of constructed facilities such as buildings, bridges, earth structures, offshore facilities, dams, lifelines and nuclear structural systems. Its purpose is to foster communication about risk and reliability among technical disciplines involved in design and construction, and to enhance the use of risk management in the constructed environment.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING



Journal of Rail Transport Planning & Management

Full-text available from 2011 to present

Available in ScienceDirect E-journals

Journal of Rail Transport Planning & Management aims to stimulate the quality of service for railway passengers and freight customers by improving the knowledge on effectiveness and efficiency of capacity management, timetabling, management and safety of railway operations. It covers the whole range of light rail, metro, heavy and high-speed railway systems. The journal will create a platform for regular transfer of knowledge, new tools and discussion of innovative contributions regarding the analysis of passenger and freight railway transport, estimation of traffic demand and capacity, design of timetables, scheduling of trains and crews, dispatching, signalling, train control, automatic train operation, optimal use of rolling stock and energy in order to increase the efficiency and competitiveness of passenger and freight transport.

The journal presents innovative theoretical approaches, high-tech concepts, new technological, financing and business management models and tools that can provide higher flexibility, performance and punctuality of trains operating on dedicated lines and in heterogeneous networks. Journal of Rail Transport Planning & Management integrates the expertise from different scientific disciplines as physical planning, transport modelling, traffic analysis, (system) engineering, mathematics, physics, computer science, economics and (transport) policy analysis.



Journal of Road Engineering

Full-text available from 2021 to present

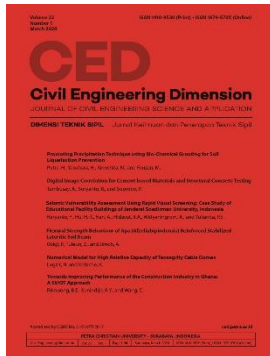
Available in ScienceDirect E-journals

As an international academic journal, Journal of Road Engineering (JRE) provides a platform for exchange and discussion of novel and creative ideas on theoretical and experimental researches on road engineering. It publishes peer-reviewed papers about roads construction and maintenance in special regions, environmentally friendly road materials, energy-saving and noise-reducing functional pavements, intelligent construction, etc., focusing on the basic theories and common technologies of road engineering under the concept of green, smart, resilient, sustainable, and electrical development. JRE is committed to promote the transformation and application of scientific and technological achievements as well as serve scientific and technological development and international academic communication in the field of road engineering.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING



Civil Engineering Dimension

Full-text available from 2004 to present

Available in elibraryUSA (Gale Academic OneFile) E-journals

Promotes a comprehensive approach to civil engineering incorporating viewpoints of different disciplines. Strengthens academic exchange with other institutions and encourages scientist, practicing engineers, and others to conduct research and other similar activities.



Architecture, Civil Engineering, Environment

Full-text available from 2019 to present

Available in elibraryUSA (Gale Academic OneFile) E-journals

Journal Architecture Civil Engineering Environment (ACEE) is a peer-reviewed open-access scientific journal owned by Silesian University of Technology and has 10 years of experience. The journal Architecture Civil Engineering Environment is the result of an agreement between three faculties of the Silesian University of Technology, Gliwice:

- Faculty of Architecture,
- Faculty of Civil Engineering,
- Faculty of Energy & Environmental Engineering.

The aim of the journal is to bridge the gap between these three domains of knowledge, and to offer the common possibility of publishing current results of research work and efforts in innovations. It is a quarterly journal, fully in English, with the papers available on website. It is an open access journal, both publication and downloading the published articles is free of charge (neither submission charges, nor article processing fee are charged).



Frontiers of Structural and Civil Engineering

Full-text available from 2012 to present

Available in elibraryUSA (Gale Academic OneFile) E-journals

Covers current progress in China in the field of architecture and civil engineering. Topics include architecture and urban planning; traffic and transportation; and port, coast and ocean engineering. Promotes communication between scientists and designers in China and abroad.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING

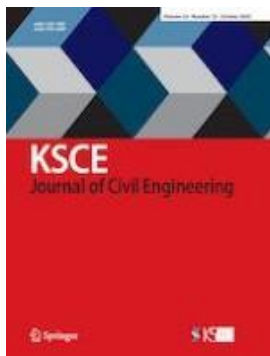


Jordan Journal of Civil Engineering

Full-text available from 2011 to 2016

Available in eLibraryUSA (Gale Academic OneFile) E-journals

Jordan Journal of Civil Engineering aims to provide a forum for a broad blend of scientific and technical papers to reflect the evolving needs of the civil engineers. Mainly welcome are contributions dealing with applications of civil engineering principles and theories in all areas of technology: structural analysis and design, soft computing, structural rehabilitations, structural control, smart materials, earthquake engineering, geotechnical engineering and soil/rock mechanics, dam engineering, traffic and transportation engineering, water and environmental engineering, construction management and project planning, surveying and mapping, and infrastructures engineering.



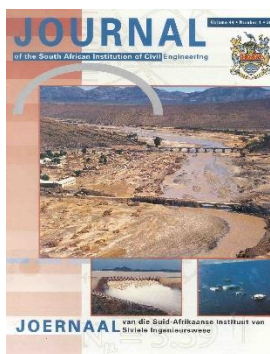
KSCE Journal of Civil Engineering

Full-text available from 2006 to present

Available in eLibraryUSA (Gale Academic OneFile) E-journals

The KSCE Journal of Civil Engineering is a technical monthly journal of the Korean Society of Civil Engineers. The journal reports original study results (both academic and practical) on past practices and present information in all civil engineering fields.

The journal publishes original papers within the broad field of civil engineering, which includes, but are not limited to, the following: coastal and harbor engineering, construction management, environmental engineering, geotechnical engineering, highway engineering, hydraulic engineering, information technology, nuclear power engineering, railroad engineering, structural engineering, surveying and geo-spatial engineering, transportation engineering, tunnel engineering, and water resources and hydrologic engineering. Both theoretical and practice-oriented papers, including case studies and reviews, are encouraged.



Journal of the South African Institution of Civil Engineering

Full-text available from 2020 to present

Available in eLibraryUSA (Gale Academic OneFile) E-journals

The Journal of the South African Institution of Civil Engineering is a peer-reviewed, technical journal that is distributed internationally.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING



CTBUH Journal

Full-text available from 2007 to 2020

Available in elibraryUSA (JSTOR) E-journals

The Council on Tall Buildings and Urban Habitat is the world's leading resource for professionals focused on the design, construction, and operation of tall buildings and future cities. A not-for-profit organization, founded in 1969 and based at the Illinois Institute of Technology Chicago, the group facilitates the exchange of the latest knowledge available on tall buildings around the world through events, publications, research, working groups, and its extensive network of international representatives. The Council's research department is spearheading the investigation of the next generation of tall buildings by aiding original research on sustainability and key development issues. The Council also maintains the world's largest free database on tall buildings, The Skyscraper Center, which is updated daily with detailed information, images and news on thousands of tall buildings around the world. The CTBUH is the arbiter of international standards for measuring tall building height.



The Military Engineer

Society of American Military Military Engineers

Full-text available from 1920 to present

Available in elibraryUSA (JSTOR) E-journals

The Society of American Military Engineers leads collaborative efforts to identify and resolve national security infrastructure-related challenges. Founded in 1920, SAME unites public and private sector individuals and organizations from across the architecture, engineering, construction, environmental and facility management, cyber security, project planning, contracting and acquisition, and related disciplines in support of national security. With its national office in Alexandria, Va., SAME provides its more than 30,000 members extensive opportunities for training, education and professional development through a robust offering of conferences, workshops, networking events and publications. SAME consists of 105 Posts and more than 50 Student Chapters and Field Chapters around the world along with a headquarters staff. Nationally, the organization is led by a volunteer Board of Direction that comprises five National Officers, 17 Regional Vice Presidents, the Chairs of the Mission Committees & Councils, as well as 12 Elected Directors.

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Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING



ASEE Prism

American Society for Engineering Education

Full-text available from 1991 to 2021

Available in elibraryUSA (JSTOR) E-journals

ASEE recognizes the term “engineering education” to encompass the full academic spectrum of instruction, research, scholarship, practice, and service. ASEE also has an enduring commitment to continuous improvement.



ASEAN Journal of Engineering Research

Full-text available: Vol. 5, No. 1 (2016)

Available in Philippine E-Journals

ASEAN Journal for ENGINEERING RESEARCH (formerly Student Engineers’ PULSAR) is an annually published Official Journal of Engineering Research of the University of the Immaculate Conception. This periodical showcases the research outputs completed by engineering faculty and students from three engineering programs of the university. This periodical is committed in providing the faculty and students the right avenue to fully develop their scientific and technical skills through the publication of their research studies.



Inhenyeriya

Full-text available: Vol. 1, No. 1 (2000), Vol. 1, No. 2 (2000), Vol. 2, No. 1 (2001), Vol. 2, No. 2 (2001), and Vol. 3, No. 1 (2003)

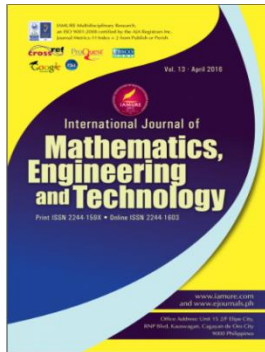
Available in Philippine E-Journals

Engineering, in these times, is markedly multidisciplinary. It vibrates and pulsates in a continuum. These ideas are symbolized by the boxed logos of the six departments of the College of Engineering (DLSU -Manila), in the order from top to bottom: Industrial, Manufacturing and Management, Mechanical, Chemical, Electronics and Communications, and Civil, linked to each other by white lines; and by the stylized gears in synchronized motion, with the central gear shown enclosing the globe. INHENYERIYA carries the color of the College of Engineering (orange) and that of De La Salle University (green and white).

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING



IAMURE International Journal of Mathematics, Engineering and Technology

International Association of Multidisciplinary Research

Full-text available: Vol., No. 1 (2012), Vol. 2, No. 1 (2012), Vol. 3, No. 1 (2012), Vol. 4, No. 1 (2012), Vol. 5, No. 1 (2013), Vol. 7, No. 1 (2013), Vol. 11, No. 1 (2015), Vol. 13, No. 1 (2016)

Available in Philippine E-Journals

The IAMURE International Journal of Mathematics, Engineering and Technology aims to publish new discoveries in mathematics, engineering and technology which are contributed by member researchers from around the world. The IAMURE International Journal of Mathematics, Engineering and Technology is an international peer reviewed journal that provides a venue for scholars to publish their research findings for advocacy and utilization.



Journal of Research in Science, Computing, and Engineering

Full-text available: Vol. 3, No. 1 (2006), Vol. 3, No. 3 (2006), Vol. 4, No. 1 (2007), Vol. 4, No. 2 (2007), Vol. 4, No. 3 (2007)

Available in Philippine E-Journals

The Journal of Research in Science, Computing and Engineering (JRSC) is published by De La Salle University, Manila, Philippines.

Creative Trans-Border Cooperation in the Field of Operations Research and Sustainable Development in Civil Engineering (2021)

Kapliński, Oleg, Vilutienė, Tatjana

Technological & Economic Development of Economy. 2021, Vol. 27 Issue 6, pp. 1613-1639.

Available in EBSCO E-articles

Items for Measuring the Construct of Workplace Oral Communication Skills (WOCS) amongst Civil Engineering Students: Step by Step Using Exploratory Factor Analysis (EFA) (2022)

Masduki, Masadlihani, Zakaria, Normah

Pertanika Journal of Social Sciences & Humanities. Mar2022, Vol. 30 Issue 1, pp. 209-227.

Available in EBSCO E-articles

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit the library webpage at: <https://www.adzu.edu.ph/library/>

CIVIL ENGINEERING

An Evaluation of Wil Training for Durban University of Technology Civil Engineering? Employer and Student Experience: Lessons for the New Programme (2021)

Khuzwayo, B. P., Vahed, S.

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