

Load Kn Fellenius

Authors from throughout Europe have contributed to this book, which covers the design advances in piling practice, performance testing and innovations in piling systems, piling systems employed in different European countries, trends and technologies and research and developments, taking into account geographical and soil conditions as they determine the state of the art.

Model Uncertainties in Foundation Design is unique in the compilation of the largest and the most diverse load test databases to date, covering many foundation types (shallow foundations, spudcans, driven piles, drilled shafts, rock sockets and helical piles) and a wide range of ground conditions (soil to soft rock). All databases with names prefixed by NUS are available upon request. This book presents a comprehensive evaluation of the model factor mean (bias) and coefficient of variation (COV) for ultimate and serviceability limit state based on these databases. These statistics can be used directly for AASHTO LRFD calibration. Besides load test databases, performance databases for other geo-structures and their model factor statistics are provided. Based on this extensive literature survey, a practical three-tier scheme for classifying the model uncertainty of geo-structures according to the model factor mean and COV is proposed. This empirically grounded scheme can underpin the calibration of resistance factors as a function of the degree of understanding – a concept already adopted in the Canadian Highway Bridge Design Code and being considered for the new draft for Eurocode 7 Part 1 (EN 1997-1:202x). The helical pile research in Chapter 7 was recognised by the 2020 ASCE Norman Medal.

This international handbook is essential for geotechnical engineers and engineering geologists responsible for designing and constructing piled foundations. It explains general principles and practice and details current types of pile, piling equipment and methods. It includes calculations of the resistance of piles to compressive loads, pile group

Ten years after the publication of the first English edition of *The History of the Theory of Structures*, Dr. Kurrer now gives us a much enlarged second edition with a new subtitle: *Searching for Equilibrium*. The author invites the reader to take part in a journey through time to explore the equilibrium of structures. That journey starts with the emergence of the statics and strength of materials of Leonardo da Vinci and Galileo, and reaches its first climax with Coulomb's structural theories for beams, earth pressure and arches in the late 18th century. Over the next 100 years, Navier, Culmann, Maxwell, Rankine, Mohr, Castigliano and Müller-Breslau moulded theory of structures into a fundamental engineering science discipline that - in the form of modern structural mechanics - played a key role in creating the design languages of the steel, reinforced concrete, aircraft, automotive and shipbuilding industries in the 20th century. In his portrayal, the author places the emphasis on the formation and development of modern numerical engineering methods such as FEM and describes their integration into the discipline of computational mechanics. Brief insights into customary methods of calculation backed up by historical facts help the reader to understand the history of structural mechanics and earth pressure theory from the point of view of modern engineering practice. This approach also makes a vital contribution to the teaching of engineers. Dr. Kurrer manages to give us a real feel for the different approaches of the players involved through their engineering science profiles and personalities, thus creating awareness for the social context. The 260 brief biographies convey the subjective aspect of theory of structures and structural mechanics from the early years of the modern era to the present day. Civil and structural engineers and architects are well represented, but there are also biographies of mathematicians, physicists, mechanical engineers and aircraft and ship designers. The main works of these protagonists of theory of structures are reviewed and listed at the end of each biography. Besides the acknowledged figures in theory of structures such as Coulomb, Culmann, Maxwell, Mohr, Müller-Breslau, Navier, Rankine, Saint-Venant, Timoshenko and Westergaard, the reader is also introduced to G. Green, A. N. Krylov, G. Li, A. J. S. Pippard, W. Prager, H. A. Schade, A. W. Skempton, C. A. Truesdell, J. A. L. Waddell and H. Wagner. The pioneers of the modern movement in theory of structures, J. H. Argyris, R. W. Clough, T. v. Kármán, M. J. Turner and O. C. Zienkiewicz, are also given extensive biographical treatment. A huge bibliography of about 4,500 works rounds off the book. New content in the second edition deals with earth pressure theory, ultimate load method, an analysis of historical textbooks, steel bridges, lightweight construction, theory of plates and shells, Green's function, computational statics, FEM, computer-assisted graphical analysis and historical engineering science. The number of pages now exceeds 1,200 - an increase of 50% over the first English edition. This book is the first all-embracing historical account of theory of structures from the 16th century to the present day.

Proceedings of the 5th International Young Geotechnical Engineers' Conference

Searching for Equilibrium

Foundation Engineering Handbook

The Design of Piled Foundations

Progress in Civil, Architectural and Hydraulic Engineering IV Tall Building Foundation Design

Frontiers in Offshore Geotechnics III comprises the contributions presented at the Third International Symposium on Frontiers in Offshore Geotechnics (ISFOG, Oslo, Norway, 10-12 June 2015), organised by the Norwegian Geotechnical Institute (NGI). The papers address current and emerging geotechnical engineering challenges facing those working in off

The Second International Conference on Press-in Engineering (ICPE) 2021 was organized by the International Press-in Association (IPA). The conference is held every three years and the main theme this time is "Evolution and Social Contribution of Press-in Engineering for Infrastructure Development, and Disaster Prevention and Mitigation". These proceedings contain 2 keynote lectures, 3 state-of-the-art lectures and about 60 papers from more than 10 countries. This publication provides good practice guidance on the application of the press-in piling method, to satisfy the requirements of geo-structures which are embedded utilizing prefabricated piles. It covers actual examples of the press-in piling method applied to various geo-structures, such as temporary and permanent retaining walls, cofferdams, cut-off walls, foundation piles etc. The content addresses the technical and construction issues relating to the selection of the appropriate type of press-in piling method, in accordance with required structural design criteria and soil and working conditions. The aim of this publication is to concisely describe practical uses of the press-in piling method for project owners, designers, contractors, academic researchers and other people in the construction industry.

'Baltic Piling' contains the proceedings of the Baltic Piling Days 2012 (Tallinn, Estonia, 3-5 September 2012). The book includes contributions on current issues in pile foundation engineering:- Interaction of pile and grillage;- Formation of pile bearing capacity- Settlements of piles- Pile foundation under historical buildings- Thermopiles, and

Geotechnical engineers are at work worldwide, contributing to sustainable living and to the creation of safe, economic and pleasant spaces to live, work and relax. With increased pressure on space and resources, particularly in cities, their expertise becomes ever more important. This book presents the proceedings of the 5th iYGEC, International Young Geotechnical Engineers' Conference, held at Marne-la-Vallée, France, from 31 August to 1 September 2013. It is also the second volume in the series Advances in Soil Mechanics and Geotechnical Engineering. The papers included here cover topics such as laboratory and field testing, geology and groundwater, earthworks, soil behavior, constitutive modeling, ground improvement, earthquake, retaining structures, foundations, slope stability, tunnels and observational methods. The iYGEC conference series brings together students and young people at the start of their career in the geotechnical professions to share their experience, and this book will be of interest to all those whose work involves soil mechanics and geotechnical engineering. The cover shows Dieppe harbour breakwater project, Louis-Alexandre de Cessart, 1776-1777. © École Nationale des Ponts et Chaussées.

Proceedings

Proceedings of a Prediction Symposium

Revue Canadienne de Géotechnique

Pile Design and Construction Practice

Glissement de Terrain : Evaluation Et Stabilisation

Proceedings of a Conference Organized by the Institution of Civil Engineers, and Held in London on 7-9 April 1992

The most important conference on soil mechanics and foundation engineering, held every four years. All papers were selected and reviewed by the national societies of the ISSMFE. Nearly all papers in English. Topics: Terzaghi oration - Geotechnical aspects of earthquakes of 1995; Heritage lecture - Geotechnics in Germany; Geotechnical aspects of the Great Belt Project and of the Oeresund Projects; Reduction of the differential settlements of the Metropolitan Cathedral in Mexico City by means of under- excavation; Soil testing and ground property characterization; Recent developments in foundation techniques; Retaining structures and excavated slopes; Underground works in urban environment; Soil improvement and reinforcement; Waste disposal and contaminated sites; Recent developments in laboratory stress-strain testing; Ground property characterization by means of insitu tests; Interplay between physical and numerical models as applied in engineering practice;

Methods of Foundation Engineering covers the theory, analysis, and practice of foundation engineering, as well as its soil mechanics and structural design aspects and principles. The book is divided into five parts encompassing 21 chapters. Part A is of an introductory character and presents a brief review of the various types of foundation structures used in civil engineering and their historical development. Part B provides the theoretical fundamentals of soil and rock mechanics, which are of importance for foundation design. Part C deals with the design of the footing area of spread footings and discusses the shallow foundation methods. Part D describes the methods of deep foundations, while Part E is devoted to special foundation methods. Each chapter in Parts C to E starts with an introduction containing a synopsis of the matter being discussed and giving suggestions as to the choice of a suitable method of foundation. This is followed by a description of the methods generally used in practice. Simple analyses of structures, presented at the conclusion of each chapter, can be carried out by a pocket calculator. This book will prove useful to practicing civil and design engineers.

Numerical Methods in Geotechnical Engineering contains the proceedings of the 8th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE 2014, Delft, The Netherlands, 18-20 June 2014). It is the eighth in a series of conferences organised by the European Regional Technical Committee ERTC7 under the auspices of the International
Explores the structural, mechanical and electrical systems of tall buildings. The eight areas of focus are, structural systems, mechanical and service

systems, electrical systems, vertical and horizontal transportation, cladding, partitions, walls and ceilings, foundation systems, and construction systems.

Frontiers in Offshore Geotechnics III

Predicted and Measured Behavior of Five Spread Footings on Sand

Baltic Piling

Proceedings of the 8th Asian Young Geotechnical Engineers Conference, Astana, Kazakhstan, August 5-7, 2016

Proceedings of GeoShanghai 2018 International Conference: Advances in Soil Dynamics and Foundation Engineering

A Comprehensive Database of Tests on Axially Loaded Piles Driven in Sand

A Comprehensive Database of Tests on Axially Loaded Driven Piles in Sands reviews the critical need to develop better load-test databases for piles driven in sands. The key quality parameters, population of current entries and reporting formats are described before offering preliminary results obtained from comparisons between axial capacities calculated by various predictive approaches and site measurements. This book also shows that the "simplified" and "offshore" ICP and UWA variants proposed by some practitioners are over-conservative and that their use could be discontinued. The new pile capacity and stiffness database offers a broad scope for evaluating potential prediction biases relating to a wide range of soil and pile parameters. Submission of further high quality tests for inclusion in regularly updated versions is encouraged. Presents a comprehensive and updated database for piles driven in predominantly silica sands Features reviews of the design procedures for driven piles in sand Assesses the performance of various mainstreams design procedures applied for piles driven in sand Provides comprehensive information of case histories of pile load tests

This work collates the topics discussed in the sixth International Conference on land and offshore piling. It covers topics such as: wave mechanics and its application to pile mechanics; driving equipment and developments; and pile integrity and low strain dynamic testing.

Basics of Foundation DesignLulu.com

Residual soils are found in many parts of the world. Like other soils, they are used extensively in construction, either to build upon, or as construction material. They are formed when the rate of rock weathering is more rapid than transportation of the weathered particles by e.g., water, gravity and wind, which results in a large share of the soil

Canadian Geotechnical Journal

Engineering Record, Building Record and Sanitary Engineer

5th IYGEC 2013

Challenges and Innovations in Geotechnics

Piling, European Practice and Worldwide Trends

Science, Technology and Practice : Proceedings of the 8th International Conference on the Application of Stress-Wave Theory to Piles :

Lisbon, Portugal, 8-10 September 2008

This book, written for the benefit of engineering students and practicing engineers alike, is the culmination of the author's four decades of experience related to the subject of electrical measurements, comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions. The unique feature of this book, apart from covering the syllabi of various universities, is the style of presentation of all important aspects and features of electrical measurements, with neatly and clearly drawn figures, diagrams and colour and b/w photos that illustrate details of instruments among other things, making the text easy to follow and comprehend. Enhancing the chapters are interspersed explanatory comments and, where necessary, footnotes to help better understanding of the chapter contents. Also, each chapter begins with a "recall" to link the subject matter with the related science or phenomenon and fundamental background. The first few chapters of the book comprise "Units, Dimensions and Standards"; "Electricity, Magnetism and Electromagnetism" and "Network Analysis". These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters. The last two chapters represent valuable assets of the book, and relate to (a) "Magnetic Measurements", describing many unique features not easily available elsewhere, a good study of which is essential for the design and development of most electric equipment – from motors to transformers and alternators, and (b) "Measurement of Non-electrical Quantities", dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices. The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters. Other useful features of the book include an elaborate chapter-by-chapter list of symbols, worked examples, exercises and quiz questions at the end of each chapter, and extensive authors' and subject index. This book will be of interest to all students taking courses in electrical measurements as a part of a B.Tech. in electrical engineering. Professionals in the field of electrical engineering will also find the book of use.

The first Pan-American Conference on Soil Mechanics and Geotechnical Engineering (PCSMGE) was held in Mexico in 1959. Every 4 years since then, PCSMGE has brought together the geotechnical engineering community from all over the world to discuss the problems, solutions and future challenges facing this engineering sector. Sixty years

*after the first conference, the 2019 edition returns to Mexico. This book, **Geotechnical Engineering in the XXI Century: Lessons learned and future challenges**, presents the proceedings of the XVI Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XVI PCSMGE), held in Cancun, Mexico, from 17 – 20 November 2019. Of the 393 full papers submitted, 335 were accepted for publication after peer review. They are included here organized into 19 technical sessions, and cover a wide range of themes related to geotechnical engineering in the 21st century. Topics covered include: laboratory and in-situ testing; analytical and physical modeling in geotechnics; numerical modeling in geotechnics; unsaturated soils; soft soils; foundations and retaining structures; excavations and tunnels; offshore geotechnics; transportation in geotechnics; natural hazards; embankments and tailings dams; soils dynamics and earthquake engineering; ground improvement; sustainability and geo-environment; preservation of historic sites; forensics engineering; rock mechanics; education; and energy geotechnics. Providing a state-of-the-art overview of research into innovative and challenging applications in the field, the book will be of interest to all those working in soil mechanics and geotechnical engineering. In this proceedings, 58% of the contributions are in English, and 42% of the contributions are in Spanish or Portuguese.*

The construction materials industry is a major user of the world's resources. While enormous progress has been made towards sustainability, the scope and opportunities for improvements are significant. To further the effort for sustainable development, a conference on Sustainable Construction Materials and Technologies was held at Coventry University, Coventry, U.K., from June 11th - 13th, 2007, to highlight case studies and research on new and innovative ways of achieving sustainability of construction materials and technologies. This book presents selected, important contributions made at the conference. Over 190 papers from over 45 countries were accepted for presentation at the conference, of which approximately 100 selected papers are published in this book. The rest of the papers are published in two supplementary books. Topics covered in this book include: sustainable alternatives to natural sand, stone, and Portland cement in concrete; sustainable use of recyclable resources such as fly ash, ground municipal waste slag, pozzolan, rice-husk ash, silica fume, gypsum plasterboard (drywall), and lime in construction; sustainable mortar, concrete, bricks, blocks, and backfill; the economics and environmental impact of sustainable materials and structures; use of construction and demolition wastes, and organic materials (straw bale, hemp, etc.) in construction; sustainable use of soil, timber, and wood products; and related sustainable construction and rehabilitation technologies.

"This conference was organized by Instituto Superior Tecnico 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.

Sustainable Construction Materials and Technologies

Handbook of Tropical Residual Soils Engineering

Proceedings of the XVI Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XVI PCSMGE), 17-20 November 2019, Cancun, Mexico

Proceedings of the Sixth International Conference on Physical Modelling in Geotechnics, 6th ICPMG '06, Hong Kong, 4 - 6 August 2006

Analytical Methods in Petroleum Upstream Applications

Foundations & Earth Structures

Geotechnical Aspects of Underground Construction in Soft Ground comprises a collection of 118 papers, four reports on symposium themes, and four invited lectures presented at the seventh International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground, held in Rome, Italy, 16-18 May 2011. The symposium was organized by the

This book is the sixth volume of the proceedings of the 4th GeoShanghai International Conference that was held on May 27 - 30, 2018. This volume, entitled "Advances in Soil Dynamics and Foundation Engineering", covers the recent advances and technologies in soil dynamics and foundation engineering. These papers are grouped into four categories: (1) soil dynamics and earthquake engineering, (2) deep excavations and retaining structures, (3) shafts and deep foundations, and (4) offshore geotechnics. It presents the state-of-the-art theories, experiments, methodologies and findings in the related areas. The book may benefit researchers and scientists from the academic fields of soil dynamics and earthquake engineering, geotechnical engineering, geoenvironmental engineering, transportation engineering, geology, mining and energy, as well as practical engineers from the industry. Each of the papers included in this book received at least two positive peer reviews. The editors would like to express their sincerest appreciation to all of the anonymous reviewers all over the world, for their diligent work.

This book provides a comprehensive guide to the design of foundations for tall buildings. After a general review of the characteristics of tall buildings, various foundation options are discussed followed by the general principles of foundation design as applied to tall buildings. Considerable attention is paid to the methods of assessment of the geotechnical design parameters, as this is a critical component of the design process. A detailed treatment is then given to foundation design for various conditions, including ultimate stability, serviceability, ground movements, dynamic loadings and seismic loadings. Basement wall design is also addressed. The last part of the book deals with pile load testing and foundation performance measurement, and finally, the description of a number of case histories. A feature of the book is the emphasis it places on the various stages of foundation design: preliminary, detailed and final, and the presentation of a number of relevant methods of design associated with each stage.

Contains the results of a full scale load testing program used to predict and measure the behaviour of five spread footings on sand. This title presents the data upon which all predictions are based; describes methodologies and judgments used to make the predictions; and also summarizes the predictions and compares predicted responses.

Proceedings of the fourth international conference, The Hague, 21-24 September 1992

Geotechnical Engineering in the XXI Century: Lessons learned and future challenges

Proceedings of the 8th International Conference on Civil Engineering

The History of the Theory of Structures

Foundations and Earth Structures

Challenges and Innovations in Geotechnics is a collections of papers presented at the Eighth Asian Young Geotechnical Engineering Conference (8AYGEC,

Astana, Kazakhstan, 5-7 August 2016), and covers various aspects the areas of soil mechanics and geotechnical engineering. The book contains special and keynote lectures and contributions on a wide range of topics in geotechnical engineering and construction: (1) Laboratory and Field Testing (2) Foundation and Underground Structure (3) Ground Improvement (4) Earthquake and Environment (5) Numerical and Analytical Modeling (6) Advanced Soil Mechanics (7) Historical Sites Challenges and Innovations in Geotechnics was published under the auspices of the ISSMGE TC-305 'Geotechnical Infrastructures for Megacities and New Capitals', and reflects the present and future state of geotechnical engineering. The book will be extremely useful to geoengineers and researchers in the abovementioned areas.

Comprising 97 papers on Geotechnical & environmental aspects (Pile-soil modelling, vibrations); Dynamic testing (Equipment & data acquisition systems); Performance during installation (Driving equipment, hammer-pile-soil system); Reliability of predictions (Theory versus experiment and simulation). Each part starts with a lecture by invited keynote speakers; followed by a general report on the papers. New themes considered are environmental aspects related to vibration and noise & the reliability of predictions emphasizing the validation of theoretical methods & practical experience.

An excellent source of reference on the current practice of physical modelling in geotechnics and environmental engineering. Volume One concentrates on physical modelling facilities and experimental techniques, soil characterisation, slopes, dams, liquefaction, ground improvement and reinforcement, offshore foundations and anchors, and pipelines. V

More than ten years have passed since the first edition was published. During that period there have been a substantial number of changes in geotechnical engineering, especially in the applications of foundation engineering. As the world population increases, more land is needed and many soil deposits previously deemed unsuitable for residential housing or other construction projects are now being used. Such areas include problematic soil regions, mining subsidence areas, and sanitary landfills. To overcome the problems associated with these natural or man-made soil deposits, new and improved methods of analysis, design, and implementation are needed in foundation construction. As society develops and living standards rise, tall buildings, transportation facilities, and industrial complexes are increasingly being built. Because of the heavy design loads and the complicated environments, the traditional design concepts, construction materials, methods, and equipment also need improvement. Further, recent energy and material shortages have caused additional burdens on the engineering profession and brought about the need to seek alternative or cost-saving methods for foundation design and construction.

A Practical Guide to Design and Installation

Proceedings of the Second International Conference on Press-in Engineering 2021, Kochi, Japan

The Application of Stress-wave Theory to Piles

Basics of Foundation Design

Numerical Methods in Geotechnical Engineering

Application of Stress-Wave Theory to Piles: Quality Assurance on Land and Offshore Piling

The International Conference on Civil, Architectural and Hydraulic Engineering series provides a forum for exchange of ideas and enhancing mutual understanding between scientists, engineers, policymakers and experts in these engineering fields. This book contains peer-reviewed contributions from many experts representing industry and academic es

The "Red Book" presents a background to conventional foundation analysis and design. The text is not intended to replace the much more comprehensive 'standard' textbooks, but rather to support and augment these in a few important areas, supplying methods applicable to practical cases handled daily by practising engineers and providing the basic soil mechanics background to those methods. It concentrates on the static design for stationary foundation conditions. Although the topic is far from exhaustively treated, it does intend to present most of the basic material needed for a practising engineer involved in routine geotechnical design, as well as provide the tools for an engineering student to approach and solve common geotechnical design problems.

The Design of Piled Foundations, Second Edition focuses on the theories which have been advanced to predict the loads which piles will carry, both singly and when used in groups to form a piled foundation. Organized into 12 chapters, this book begins with an explanation of the utilization of piles. Subsequent chapters discuss the types of piles and their construction; pile driving by vibration; the calculation of the ultimate bearing capacity of a pile from soil properties; the settlement of single piles and the choice of a factor of safety; and piles in soft soils. Other chapters describe pile testing; piles in groups with vertical loading; horizontal forces on piles and pile group; and the durability of piles.

An unbiased, comprehensive review of helical pile technology and applications Helical piles have risen from being merely an interesting alternative for special cases to a frequently requested, more widely accepted deep foundation adopted into the 2009 International Building Code. The first alternative to manufacturer-produced manuals, Howard Perko's Helical Piles: A Practical Guide to Design and Installation answers the industry's need for an unbiased and universally applicable text dedicated to the design and installation of helical piles, helical piers, screw piles, and torque anchors. Fully compliant with ICC-Evaluation Services, Inc., Acceptance Criteria for Helical Foundation Systems and Devices (AC308), this comprehensive reference guides construction professionals to manufactured helical pile systems and technology, providing objective insights into the benefits of helical pile foundations over driven or cast foundation systems, and recommending applications where appropriate. After introducing the reader to the basic features, terminology, history, and modern applications of helical pile technology, chapters discuss: Installation and basic geotechnics Bearing and pullout capacity Capacity verification through torque Axial load testing, reliability, and sizing Expansive soil and lateral load resistance Corrosion and life expectancy Foundation, earth retention, and underpinning

systems Foundation economics Select proprietary systems IBC and NYC Building codes Covering such issues of concern as environmental sustainability, Helical Piles provides contractors and engineers as well as students in civil engineering with a practical, real-world guide to the design and installation of helical piles.

Geotechnical Aspects of Underground Construction in Soft Ground

Model Uncertainties in Foundation Design

Tall Building Systems and Concepts

Physical Modelling in Geotechnics, Two Volume Set

Canadian Foundation Engineering Manual

Application of Stress-wave Theory to Piles

Effective measurement of the composition and properties of petroleum is essential for its exploration, production, and refining; however, new technologies and methodologies are not adequately documented in much of the current literature. Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components, classes of compounds, properties, and features of petroleum and its fractions. Recognized experts explore a host of topics, including: A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil-in-water measurements and monitoring The chemical and physical properties of heavy oils, their fractions, and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance (NMR) applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream, midstream, and downstream operations Due to the renaissance of gas and oil production in North America, interest has grown in analytical methods for a wide range of applications. The understanding provided in this text is designed to help chemists, geologists, and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations, providing insight into optimum development and extraction schemes.

Methods of Foundation Engineering

Comptes rendus du quatorzième conférence internationale de Mécanique des sols et des travaux de fondation, Hambourg, 6-12 septembre 1997

Helical Piles

Structures and Solid Body Mechanics

Proceedings of the Conference on Sustainable Construction Materials and Technologies, 11-13 June 2007, Coventry, United Kingdom

Electrical Measuring Instruments and Measurements