

Nghp User Guide 40

This volume presents papers on the use of micro-XRF core scanners in palaeoenvironmental research. It contains a broad ranging view of instrument capability and points to future developments that will help contribute to higher precision elemental data and faster core analysis. Readers will find a diverse range of research by leading experts that have used micro-XRF core scanners in a wide range of scientific applications. The book includes specific application papers reporting on the use of XRF core scanners in a variety of marine, lacustrine, and pollution str calibration and interpretation. In a little over a decade, micro-XRF sediment core scanners have made a substantive contribution to palaeoenvironmental research. Their impact is based on their ability to rapidly, non-destructively and automatically scan sediment cores. Not only do they rapidly provide important proxy data without damaging samples, but they can obtain environmental data at decadal, annual and even sub-annual scales. This volume will help both experienced and new users of these non-destructive core scanners take full advantage of one of the most powerful tools available. With millions of kilometres of onshore and offshore oil and gas pipelines in service around the world, pipelines are the life's blood of the world. Notorious for disrupting natural gas production or transmission, the formation of natural gas hydrates can cost a company hundreds of millions and lead to catastrophic equipment breakdowns and safety and health hazards. Written by an international group of experts, Natural Gas Hydrates in Flow Assurance provide an expert overview of the practice and theory in natural gas hydrates, with applications primarily in flow assurance. This book is a practical guide to the key lessons learned in the industry over the last 20 years. Packed with field case studies, the book is designed to provide hands-on training and practice in calculating hydrate phase equilibria and plug dissociation. In addition readers receive executable programs to calculate hydrate thermodynamics. Case studies of hydrates in flow assurance The key concepts underlying the practical applications An overview of the state of the art flow assurance industrial developments

The 2001 CPT Professional comes with all 2001 code information. This code book also includes colour keys, anatomical illustrations, medical terminology, thumb tabs and a convenient spiral binding.

Enforcing Recoupment Provisions in ERISA-covered Health and Disability Plans

Medicare Law

Medicare and Other Health Benefits

Deep-water Coral Reefs

Florida Evidence

This is the nineteenth global report on tuberculosis (TB) published by WHO in a series that started in 1997. It provides a comprehensive and up-to-date assessment of the TB epidemic and progress in implementing and financing TB prevention care and control at global regional and country levels using data reported by over 200 countries that account for over 99% of the world's TB cases. The report is accompanied by a special supplement that marks the 20th anniversary of the establishment of the Global Project on Anti-TB Drug Resistance Surveillance. The supplement highlights the latest status of knowledge about the epidemic of multidrug-resistant TB (MDR-TB) and the programmatic response. The report has 9 main chapters. The introductory chapter provides general background on TB as well as an explanation of current global targets for TB control the WHO's Stop TB Strategy that covers the period 2006-2015 and the post-2015 global TB strategy that was recently endorsed by all Member States at the 2014 World Health Assembly. The remaining eight chapters cover the disease burden caused by TB (incidence prevalence mortality); a special assessment (countdown to 2015) of progress towards 2015 global TB targets at global regional and country level; TB case notifications and treatment outcomes; drug resistance surveillance among TB patients and the programmatic response in detecting and providing treatment for multidrug-resistant TB; diagnostics and laboratory strengthening for TB; addressing the co-epidemics of TB and HIV; financing TB care and control; and research and development for new TB diagnostics drugs and vaccines. The three annexes of the report include an explanation of how to access and use the online global TB database one-page profiles for 22 high TB-burden countries and one page regional profiles for WHO's six regions.

This book enables petroleum reservoir engineers to predict the flow of fluids within a hydrocarbon deposit. Laboratory techniques are described for both steady-state and unsteady state measurements, and the calculation of relative permeability from field data is illustrated. A discussion of techniques for determining wettability is included, along with theoretical and empirical methods for the calculation of relative permeability, and prediction techniques. Contents include: Measurement of Rock Relative Permeability; Two-Phase Relative Permeability; Factors Affecting Two-Phase Relative Permeability; Three-Phase Relative Permeability; and Index.

Seismic attributes play a key role in exploration and exploitation of hydrocarbons. In Seismic Attributes for Prospect Identification and Reservoir Characterization (SEG Geophysical Developments No. 11), Satinder Chopra and Kurt J. Marfurt introduce the physical basis, mathematical implementation, and geologic expression of modern volumetric attributes including coherence, dip/azimuth, curvature, amplitude gradients, seismic textures, and spectral decomposition. The authors demonstrate the importance of effective color display and sensitivity to seismic acquisition and processing. Examples from different basins illustrate the attribute expression of tectonic deformation, clastic depositional systems, carbonate depositional systems and diagenesis, drilling hazards, and reservoir characterization. The book is illustrated generously with color figures throughout. "Seismic Attributes" will appeal to seismic interpreters who want to extract more information from data; seismic processors and imagers who want to learn how their efforts impact subtle stratigraphic and fracture plays; sedimentologists, stratigraphers, and structural geologists who use large 3D seismic volumes to interpret their plays within a regional, basinwide context; and reservoir engineers whose work is based on detailed 3D reservoir models. Copublished with EAGE.

Energy from Gas Hydrates: Assessing the Opportunities and Challenges for Canada

Claithrate Hydrates of Natural Gases

Appendix

Submarine Mass Movements and Their Consequences

Crustal Heat Flow

A significantly expanded new edition of this practical guide to rock physics and geophysical interpretation for reservoir geophysicists and engineers.

This Five Year Plan document focuses on Faster, Sustainable and Inclusive Growth. The document is divided into three volumes. Volume I: Faster, More Inclusive and Sustainable Growth provides details of Macroeconomics Framework: Financing the Plan Sustainable Development: Water, Land Issues: Environment, Forestry and Wildlife: Science and Technology: Innovation, Governance: Regional Equality: Volume II: Economic Sectors provides plans for Agriculture, Industry, Energy, Transport, Communication, Rural Development, Urban Development and Other Priority Sectors such as Construction, Tourism, Arts and Culture, Handicrafts and Handicrafts and Youth Affairs and Sports and Volume III: Social Sectors—Health, Education, Employment and Skill Development, Women's Agency and Child Rights, Social Inclusion.

This book deals exclusively with naturally fractured reservoirs and includes many subjects usually treated in separate volumes. A highly practical edition, Naturally Fractured Reservoirs is written for students, reservoir geologists, log analysts and petroleum engineers.

Construction Manual of Prefabricated Timber House

Twelfth Five Year Plan, 2012-2017: Social sectors

Twelfth Five Year Plan (2012 - 2017)

Medicare Secondary Payer

Tools for Seismic Analysis of Porous Media

Offers a collection of true facts about animals, food, science, pop culture, outer space, geography, and weather.

Hydrate research has expanded substantially over the past decade, resulting in more than 4,000 hydrate-related publications. Collating this vast amount of information into one source, Clathrate Hydrates of Natural Gases, Third Edition presents a thoroughly updated, authoritative, and comprehensive description of all major aspects of natural gas cla

This book provides a comprehensive overview of the taxonomy, biology, sedimentation, and carbonate geochronology of modern species. Students, early career and advanced scientists alike will profit from a broad synthesis of the current understanding of planktic foraminifers as an ecological indicator, biogeochemical factories, and proxies in paleoceanography. The classification of modern species is amply illustrated with electron and light microscope images of morphotypes, addresses the state-of-the-art of molecular genetics of species, and provides a detailed guide to any laboratory analyses. The biology of planktic foraminifers is extensively discussed in chapters dedicated to the cellular ultrastructure, nutrition, symbionts, reproduction, ontogeny, and test architecture. Building on the biological prerequisites, the distribution of planktic foraminifers is discussed at regional to global scale. The geochemistry and sedimentation of tests are considered in relation to the ecology of the living animal. In the final chapter, which examines the most common methods in planktic foraminifer research, hands-on information is provided on sampling, processing and analyzing samples in the laboratory, as well as selected established methods for data interpretation. The various topics discussed in this book are aimed at the application of planktic foraminifers as sensitive indicators of the changing climate and marine environment.

Applied Geophysics

Applying Rock Physics Tools to Reduce Interpretation Risk

A Guide to Measurement and Modelling

Planktic Foraminifers in the Modern Ocean

Medicare & You

A handbook for geologists and geophysicists who manipulate thermal data: professionals researchers, and advanced students.

This is the completely revised and updated version of the popular and highly regarded textbook, Applied Geophysics. It describes the physical methods involved in exploration for hydrocarbons and minerals, which include gravity, magnetic, seismic, electrical, electromagnetic, radioactivity, and well-logging methods. All aspects of these methods are described, including basic theory, field equipment, techniques of data acquisition, data processing and interpretation, with the objective of locating commercial deposits of minerals, oil, and gas and determining their extent. In the fourteen years or so since the first edition of Applied Geophysics, many changes have taken place in this field, mainly as the result of new techniques, better instrumentation, and increased use of computers in the field and in the interpretation of data. The authors describe these changes in considerable detail, including improved methods of solving the inverse problem, specialized seismic methods, magnetotellurics as a practical exploration method, time-domain electromagnetic methods, increased use of gamma-ray spectrometers, and improved well-logging methods and interpretation. Deep-water coral reefs are found along large sections of the outer continental shelves and slopes of Europe, from North Cape to the Gulf of Cadiz, and because they also occur along the Atlantic seaboard of USA, the Gulf of Mexico, off Brazil, in the Mediterranean, and off New Zealand, they are currently being targeted by international groups of marine scientists. They have become popular and opportune deep-water research targets because they offer exciting frontier exploration, combined with a whole plethora of modern scientific methods, such as deep-sea drilling, sampling, remote control surveying and documentation. Furthermore they represent timely opportunities for further developments within the application of geochemistry, stable isotope research, bacterial sciences, including DNA-sequestering, and medical research (search for bioactive compounds). The Integrated Ocean Drilling Program (IODP) has arranged a deep-sea scientific drilling campaign on giant carbonate banks off Ireland. Because the reefs currently defy traditional marine-ecological theories, they represent future research opportunities and will enjoy scientific scrutiny for many years to come.

World Atlas of Submarine Gas Hydrates in Continental Margins

CPT 2001

Spatial Information Technology for Sustainable Development Goals

Global Tuberculosis Report 2014

Applications of a non-destructive tool for the environmental sciences

This textbook aims to develop a scientific knowledge base on spatial information technology to communicate the United Nations' Sustainable Development Goals (SDGs) among students, researchers, professionals and laymen. The book improves understanding of the spatial database and explains how to extract information from this for planning purposes. To enhance the knowledge of geoscientists and environmentalists, the book describes the basic fundamental concepts to advance techniques for spatial data management and analysis and discusses the methodology. The Geographic Information System (GIS), remote sensing and Global Positioning System (GPS) are presented in an integrated manner for the planning of resources and infrastructure. The management of these systems is discussed in a very lucid way to develop the reader's skills. The proper procedure for map making and spatial analysis are included along with case studies to the reader. Where the first part of the book discusses the conceptual background, the second part deals with case studies using these applications in different disciplines. The presented case studies include land use, agriculture, flood, watershed characterization and infrastructure assessment for the Sustainable Development Goals.

This world atlas presents a comprehensive overview of the gas-hydrate systems of our planet with contributions from esteemed international researchers from academia, governmental institutions and hydrocarbon industries. The book illustrates, describes and discusses gas hydrate systems, their geophysical evidence and their future prospects for climate change and continental margin geohazards from passive to active margins. This includes passive volcanic to non-volcanic margins including glaciated and non-glaciated margins from high to low latitudes. Shallow submarine gas hydrates allow a glimpse into the past from the Last Glacial Maximum (LGM) to modern environmental conditions to predict potential changes in future stability conditions while deep submarine gas hydrates remained more stable. This demonstrates their potential for rapid reactions for some gas hydrate provinces to a warming world, as well as helping to identify future prospects for environmental research. Three-dimensional and high-resolution seismic imaging technologies provide new insights into fluid flow systems in continental margins, enabling the identification of gas and gas escape routes to the seabed within gas hydrate environments, where seabed habitats may flourish. The volume contains a method section detailing the seismic imaging and logging while drilling techniques used to characterize gas hydrates and related dynamic processes in the sub seabed. This book is unique, as it goes well beyond the geophysical monograph series of natural gas hydrates and textbooks on marine geophysics. It also emphasizes the potential for gas hydrate research across a variety of disciplines. Observations of bottom simulating reflectors (BSRs) in 2D and 3D seismic reflection data combined with velocity analysis, geoelectromagnetic investigations and gas-hydrate stability zone (GHSZ) modelling, provide the necessary insights for academic interests and hydrocarbon industries to understand the potential extent and volume of gas hydrates in a wide range of tectonic settings of continental margins. Gas hydrates control the largest and most dynamic reservoir of global carbon. Especially 4D, 3D seismic but also 2D seismic data provide compelling sub-seabed images of their dynamical behavior. Sub-seabed imaging techniques increase our understanding of the controlling mechanisms for the distribution and migration of gas before it enters the gas-hydrate stability zone. As methane hydrate stability depends mainly on pressure, temperature, gas composition and pore water chemistry, gas hydrates are usually found in ocean margin settings where water depth is more than 300 m and gas migrates upward from deeper geological formations. This highly dynamic environment may precondition the stability of continental slopes as evidenced by geohazards and gas expelled from the sea floor. This book provides new insights into variations in the character and existence of gas hydrates and BSRs in various geological environments, as well as their dynamics. The potentially dynamic behavior of this natural carbon system in a warming world, its current and future impacts on a variety of Earth environments can now be adequately evaluated by using the information provided in the world atlas. This book is relevant for students, researchers, governmental agencies and oil and gas professionals. Some familiarity with seismic data and some basic understanding of geology and tectonics are recommended.

Submarine mass movements represent major offshore geohazards due to their destructive and tsunami-generation potential. This potential poses a threat to human life as well as to coastal, nearshore and offshore engineering structures. Recent examples of catastrophic submarine landslide events that affected human populations (including tsunamis) are numerous; e.g., Nice airport in 1979, Papua–New Guinea in 1998, Stromboli in 2002, Finneidfjord in 1996, and the 2006 and 2009 failures in the submarine cable network around Taiwan. The Great East Japan Earthquake in March 2011 also generated submarine landslides that may have amplified effects of the devastating tsunami. Given that 30% of the World's population live within 60 km of the coast, the hazard posed by submarine landslides is expected to grow as global sea level rises. This elevated awareness of the need for better understanding of submarine landslides is coupled with great advances in submarine mapping, sampling and monitoring technologies. Laboratory analogue and numerical modeling capabilities have also developed significantly of late. Multibeam sonar, 3D seismic reflection, and remote and autonomous underwater vehicle technologies provide hitherto unparalleled imagery of the geology beneath the oceans, permitting investigation of submarine landslide deposits in great detail. Increased and new access to drilling, coring, in situ measurements and monitoring devices allows for ground-truth of geophysical data and provides access to samples for geotechnical laboratory experiments and information on in situ strength and effective stress conditions of underwater slopes susceptible to fail. Great advances in numerical simulation techniques of submarine landslide kinematics and tsunami propagation, particularly since the 2004 Sumatra tsunami, have also lead to increased understanding and predictability of submarine landslide consequences. This volume consists of the latest scientific research by international experts in geological, geophysical, engineering and environmental aspects of submarine mass failure, focused on understanding the full spectrum of challenges presented by submarine mass movements and their consequences.

Natural Gas Hydrates in Flow Assurance

Who Pays First?

The Budget of the United States Government

Quantitative Seismic Interpretation

Seismic Attributes for Prospect Identification and Reservoir Characterization

Atmospheric Science, Second Edition, is the long-awaited update of the classic atmospheric science text, which helped define the field nearly 30 years ago and has served as the cornerstone for most university curricula. Now students and professionals alike can use this updated classic to understand atmospheric phenomena in the context of the latest discoveries, and prepare themselves for more advanced study and real-life problem solving. This latest edition of Atmospheric Science, has been revamped in terms of content and appearance. It contains new chapters on atmospheric chemistry, the Earth system, the atmospheric boundary layer, and climate, as well as enhanced treatment of atmospheric dynamics, radiative transfer, severe storms, and global warming. The authors illustrate concepts with full-color, state-of-the-art imagery and cover a vast amount of new information in the field. Extensive numerical and qualitative exercises help students apply basic physical principles to atmospheric problems. There are also biographical footnotes summarizing the work of key scientists, along with a student companion website that hosts climate data; answers to quantitative exercises; full solutions to selected exercises; skew-T log p chart; related links, appendices; and more. The instructor website features: instructor's guide; solutions to quantitative exercises; electronic figures from the book; plus supplementary images for use in classroom presentations. Meteorology students at both advanced undergraduate and graduate levels will find this book extremely useful. Full-color satellite imagery and cloud photographs illustrate principles throughout. Extensive numerical and qualitative exercises emphasize the application of basic physical principles to problems in the atmospheric sciences. Biographical footnotes summarize the lives and work of scientists mentioned in the text, and provide students with a sense of the long history of meteorology. Companion website encourages more advanced exploration of text topics: supplementary information, images, and bonus exercises.

To provide effective service in helping people understand how they are going to be affected by health care reform and how to obtain coverage, pursue an appeal, or plan for long-term care or retirement, you need the most current information from a source you can trust – Medicare Handbook. This is the indispensable resource for clarifying Medicare's confusing rules and regulations. Prepared by an outstanding team of experts from the Center for Medicare Advocacy, it addresses issues you need to master to provide effective planning advice or advocacy services, including: Medicare eligibility rules and enrollment requirements; Medicare covered services, deductibles, and co-payments; coinsurance, premiums, penalties; coverage criteria for each of the programs; problem areas of concern for the advocate; grievance and appeals procedures. The 2019 Edition of Medicare Handbook offers expert guidance on: Medicare Enrollment and Eligibility Medicare Coverage in all Care-Settings Medicare Coverage for People with Chronic Conditions Medicare Home Health Coverage and Access to Care Prescription Drug Coverage Medicare Advantage Plans Medicare Appeals Health Care Reform And more! In addition, Medicare Handbook will help resolve the kinds of questions that arise on a regular basis, such as: How do I appeal a denial of services? What steps do I need to take in order to receive Medicare covered home health care? What are the elements of Medicare's appeal process for the denial of coverage of an item, service, or procedure? Does my state have to help me enroll in Medicare so that I can get assistance through a Medicare Savings Program? When should I sign up for a Medigap plan? If I am enrolled in Medicare, do I have to buy health insurance in the insurance marketplace created by the Affordable Care Act? Is it true that I have to show medical improvement in order to get Medicare for my nursing and therapy services? And more! The 2019 Medicare Handbook is the indispensable resource that provides: Extensive discussion and examples of how Medicare rules apply in the real world. Case citations, checklists, worksheets, and other practice tools to help in obtaining coverage for clients, while minimizing research and drafting time. Practice pointers and cautionary notes regarding coverage and eligibility questions when advocacy problems arise, and those areas in which coverage has often been reduced or denied And more! Note: Online subscriptions are for three-month periods. Previous Edition: Medicare Handbook, 2018 Edition ISBN 9781454884224

Quantitative Seismic Interpretation demonstrates how rock physics can be applied to predict reservoir parameters, such as lithologies and pore fluids, from seismically derived attributes. The authors provide an integrated methodology and practical tools for quantitative interpretation, uncertainty assessment, and characterization of subsurface reservoirs using well-log and seismic data. They illustrate the advantages of these new methodologies, while providing advice about limitations of the methods and traditional pitfalls. This book is aimed at graduate students, academics and industry professionals working in the areas of petroleum geoscience and exploration seismology. It will also interest environmental geophysicists seeking a quantitative subsurface characterization from shallow seismic data. The book includes problem sets and a case-study, for which seismic and well-log data, and Matlab codes are provided on a website (<http://www.cambridge.org/9780521816014>). These resources will allow readers to gain a hands-on understanding of the methodologies.

Relative Permeability Of Petroleum Reservoirs

Medicare Handbook, 2019 Edition (TL)

An Introductory Survey

Weird But True!, Level 1

Micro-XRF Studies of Sediment Cores

This first IAS Special Publication contains the oral presentations from a special symposium on pelagic sediments held in Zurich in 1973. The aim of the symposium was to bring together sea-borne researchers involved with the Deep Sea Drilling Project and land-locked researchers studying ancient sediments. If you are a member of the International Association of Sedimentologists, for purchasing details, please see: <http://www.iasnet.org/publications/details.asp?code=SP1>

Medicare Handbook, 2019 Edition (IL)Wolters Kluwer

Atmospheric Science

The Rock Physics Handbook

current procedural terminology

On Land and Under the Sea

Pelagic Sediments