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GEOPHYSICAL CASE HISTORIES IN CHINA



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Geophysical Case Histories In China

**Lidong Dai, Haiying Hu, Jianjun Jiang, Xi
Liu, Geeth Manthilake, Vassilios Saltas**

Geophysical Case Histories In China:

Geophysical Case Histories in China ,1992 Geophysical Abstracts Geological Survey (U.S.),1948 *Geological Survey Bulletin* ,1952 **Deepwater Geohazards in the South China Sea** Shiguo Wu,Yunbao Sun,Qingping Li,Jiliang Wang,Dawei Wang,Qiliang Sun,Chuanxu Chen,Yangbing Xie,2024-05-03 This book comprehensively analyzes and summarizes the types characteristics and prevention of deep sea geological disasters in the South China Sea based on the research progress of global background It also brings attention to the general public and stakeholders the risks of deep sea geological disasters *Issues in Earth Sciences, Geology, and Geophysics: 2012 Edition* ,2013-01-10 Issues in Earth Sciences Geology and Geophysics 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Hydrology The editors have built Issues in Earth Sciences Geology and Geophysics 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Hydrology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Earth Sciences Geology and Geophysics 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Urbanization, Energy, and Air Pollution in China Chinese Academy of Sciences,Chinese Academy of Engineering,National Academy of Engineering,National Research Council,Policy and Global Affairs,Development, Security, and Cooperation,2005-01-04 In October 2003 a group of experts met in Beijing under the auspices of the Chinese Academy of Sciences Chinese Academy of Engineering and National Academy of Engineering NAE National Research Council NRC of the National Academies to continue a dialogue and eventually chart a rational course of energy use in China This collection of papers is intended to introduce the reader to the complicated problems of urban air pollution and energy choices in China

World Archaeo-Geophysics Carmen Cuenca-Garcia,Andrei Asăndulesei,Kelsey M. Lowe,2024-07-13 This open access volume showcases the intersection of geophysics and archaeology on a global scale emphasising the evolution and application of geophysical methods in archaeological research and cultural heritage management It compiles contributions from 74 experts based in 18 countries with their research and case studies spanning across 24 different countries focusing on the use of near surface geophysical techniques and their integration with soil analyses and other methods to enrich archaeological interpretations Prepared under the auspices of the collaborative network fostered by COST Action SAGA CA17131 this work navigates through the successes and challenges encountered in the widespread adoption of archaeo geophysical methods across diverse geographic and cultural landscapes It offers a comprehensive chronicle of the genesis maturation and cutting edge advancements in geophysical techniques advocating for their amplified integration within the

archaeological community Incorporating an array of case studies and critical discussions on methodological and interpretive questions the book underscores the importance of multidisciplinary collaboration and defines perspectives for innovation and growth within the field As an open access work WORLD ARCHAEO GEOPHYSICS aims to contribute to the democratisation of knowledge fostering shared learning and cooperative engagement among professionals academics students and archaeology enthusiasts alike Funded by the European Cooperation in Science and Technology COST and supported by the Norwegian University of Science and Technology NTNU this volume stands as a legacy of the resilient spirit of collaboration that defined the COST Action SAGA community even in the face of pandemic challenges It invites the academic and professional community to engage in new explorations and advancements positioning itself as a reference for current and future endeavors in archaeo geophysics

Issues in Earth Sciences, Geology, and Geophysics: 2011 Edition ,2012-01-09 Issues in Earth Sciences Geology and Geophysics 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Earth Sciences Geology and Geophysics The editors have built Issues in Earth Sciences Geology and Geophysics 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Earth Sciences Geology and Geophysics in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Earth Sciences Geology and Geophysics 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Advances of New Technologies in Seismic Exploration
Shaoping Lu,Sanyi Yuan,Lingyun Qiu,Xiang Li,Tie Zhong,Xintong Dong ,Peng Guo,2025-10-01 In the past few decades the geophysics community has proposed a large number of new technologies for seismic exploration to meet the needs of high resolution subsurface imaging These new technologies have made great contributions to advances in seismic exploration and structural geology For instance the appearance of distributed optical fiber acoustic sensing DAS makes it possible to acquire seismic data with high spatial resolution at low cost Advances have been made in full waveform inversion FWI and it is now considered the most robust approach for the reconstruction of subsurface velocity models Multiples which were originally regarded as a common noise are now applied to seismic imaging and accordingly provide extra illumination and least square migration LSM greatly improves illumination and resolution of seismic imaging Deep learning especially the convolutional neural network CNN has shown remarkable performance in seismic noise attenuation interpolation velocity model reconstruction arrival time picking and interpretation Although these new technologies have solved certain real world geophysical issues they still have the following limitations Firstly fiber system noise reduces the quality of seismic data received by DAS restricting its further applications Secondly slow convergence rate and huge computational cost are main

bottlenecks faced by iterative seismic inversion approaches such as LSM and FWI Moreover the cycle skipping problem is still a challenging issue in FWI Thirdly the weak generalization of trained models needs to be addressed before deep learning can be implemented widely to solve real world problems Forthly the solution of the anisotropic elastic wave equation needs to be improved for its applications in practice

Earth Deep Interior: High-pressure Experiments and Theoretical Calculations From the Atomic to the Global Scale Lidong Dai, Haiying Hu, Jianjun Jiang, Xi Liu, Geeth Manthilake, Vassilios Saltas, 2022-07-12

Advanced Methods for Interpreting Geological and Geophysical Data Ahmed M. Eldosouky, Luan Thanh Pham, David Gomez-Ortiz, Saulo Oliveira, Ahmed Henaish, 2024-07-08

The introduction and application of advanced geological and geophysical methods can solve many problems related to geoscience This Research Topic gives a thorough treatment of the interpretation of geological and geophysical data through advanced techniques and integrated approaches It aims to create a more reliable integration of various geological and geophysical data in an exploration and new findings context weighing the strengths and limitations of the various methods in order to develop geophysical and geological models It will also focus on the interpretation techniques for evaluating structural and sedimentological stratigraphical processes with applications within resource exploration geohazards seismology seabed ecology and global climate

Geology of the China Seas Pinxian Wang, Qianyu Li, Chun-Feng Li, 2014-06-07

Geology of the China Seas represents the first English language synthesis of the available research into the geology of the South and East China Seas Among the marginal basins worldwide these areas have been the focus of extensive research activities in the last three decades and are now among the global hot spots in hydrocarbon explorations and scientific investigations The region is experiencing rapid economic development with the offshore petroleum industry providing approximately one third of the domestic hydrocarbon production for mainland China Gas hydrates have been successfully recovered from the China Seas for the first time Over the years many volumes on the geology of the China Seas have been published in Chinese Although an increasing number of papers in English have appeared recently the majority deal with local or regional paleo environment and sedimentology and are scattered in different journals This book brings together this rich data in one resource particularly that generated by Chinese marine geologists and petroleum geologists and provides the very first synthesis of the geology off China The first systematic summary of the geology of the China Seas Includes comprehensive coverage of the South China Sea and the East China Sea including the Yellow Sea and Bohai Gulf Reviews hundreds of Chinese publications on marine and petroleum geology not currently accessible to the international community

Chinese Journal of Geophysics, 1998

Seismoelectric Exploration Niels Grobbee, André Revil, Zhenya Zhu, Evert Slob, 2020-10-08

Seismoelectric coupling and its current and potential future applications The seismoelectric method the naturally occurring coupling of seismic waves to electromagnetic fields can provide insight into important properties of porous media With a variety of potential environmental and engineering uses as well as larger scale applications such as earthquake detection and oil and gas exploration it offers a

number of advantages over conventional geophysical methods Seismoelectric Exploration Theory Experiments and Applications explores the coupling between poroelastic and electromagnetic disturbances discussing laboratory experiments numerical modeling techniques recent theoretical developments and field studies Volume highlights include Physics of the seismoelectric effect at the microscale Governing equations describing coupled seismoelectromagnetic fields Examples of successful seismoelectric field experiments in different geological settings Current and potential applications of seismoelectric coupling Noise removal techniques for seismoelectric field measurements The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Groundwater

Geophysics in Hard Rock Prabhat Chandra Chandra,2015-10-07 In hard rock terrain shallow water wells generally have a poor to moderate yield Sinking wells deeply to tap yielding fracture zones often backfires because the borehole may miss the saturated fracture zones at depths A wrong approach to groundwater exploration in hard rock has therefore often led to unnecessary recurring expenditures and waste

Issues in Biophysics and Geophysics Research and Application: 2011 Edition ,2012-01-09 Issues in Biophysics and Geophysics Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Biophysics and Geophysics Research and Application The editors have built Issues in Biophysics and Geophysics Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Biophysics and Geophysics Research and Application in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Biophysics and Geophysics Research and Application 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Novel Methods and Applications for Mineral Exploration Paul Alexandre,2020-05-20 This special volume offers a snapshot of the latest developments in mineral exploration in particular geophysical geochemical and computational methods It reflects the cutting edge applications of geophysics and geochemistry as well as novel technologies such as in artificial intelligence and hyperspectral exploration methods that have profoundly changed how exploration is conducted This special volume is a representation of these cutting edge and pioneering methods to consider and conduct exploration and should serve both as a valuable compendium of the most innovative exploration methodologies available and as a foreshadowing of the form of future exploration As such this volume is of significant importance and would be useful to any exploration geologist and company *Chinese Geophysics* ,1982 **Static**

Corrections for Seismic Reflection Surveys Michael J. G. Cox,1999 This reference manual is designed to enable more

geophysicists to appreciate static corrections especially their limitations their relationship with near surface geology and their impact on the quality of final interpreted sections The book is addressed to those involved in data acquisition datum static corrections data processing datum static and residual static corrections and interpretation the impact that unresolved static corrections especially the long wavelength or low spatial frequency component have on the interpretation of the final section Simple explanations of the underlying principles are included in an attempt to remove some of the mystique of static corrections The principles involved are illustrated with simple models these are supplemented with many data examples This book details differences in approaches that must be considered among 2D 3D and crooked line recordings as well as between P wave and S wave surveys Static corrections are shown to be a simplified yet practical approach to modeling the effects of the near surface where a more correct wavefield or raypath modeled method may not be efficiently undertaken Chapters cover near surface topography and geology computation of datum static corrections uphole surveys refraction surveys static corrections limitations and effect on seismic data processes residual static corrections and interpretation aspects An extensive index and a large list of references are included

Borehole Acoustic Logging - Theory and Methods Hua Wang, M. Nafi Toksöz, Michael C Fehler, 2020-07-30 This book covers the principles historical development and applications of many acoustic logging methods including acoustic logging while drilling and cased hole logging methods Benefiting from the rapid development of information technology the subsurface energy resource industry is moving toward data integration to increase the efficiency of decision making through the use of advanced big data and artificial intelligence technologies such as machine deep learning However wellbore failure may happen if evaluations of risk and infrastructure are made using data mining methods without a complete understanding of the physics of borehole measurements Processed results from borehole acoustic logging will constitute part of the input data used for data integration Therefore to successfully employ modern techniques for data assimilation and analysis one must fully understand the complexity of wave mode propagation how such propagation is influenced by the well and the materials placed within the well i e the cement casing and drill strings and ultimately how waves penetrate into and are influenced by geological formations State of the art simulation methods such as the discrete wavenumber integration method DWM and the finite difference method FDM are introduced to tackle the numerical challenges associated with models containing large material contrasts such as the contrasts between borehole fluids and steel casings Waveforms and pressure snapshots are shown to help the reader understand the wavefields under various conditions Advanced data processing methods including velocity analyses within the time and frequency domains are utilized to extract the velocities of different modes Furthermore the authors discuss how various formation parameters influence the waveforms recorded in the borehole and describe the principles of both existing and potential tool designs and data acquisition schemes This book greatly benefits from the research and knowledge generated over four decades at the Earth Resources Laboratory ERL of the Massachusetts Institute of Technology MIT under its acoustic logging program Given

its scope the book is of interest to geophysicists including borehole geophysicists and seismologists petrophysicists and petroleum engineers who are interested in formation evaluation and cementation conditions In addition this book is of interest to researchers in the acoustic sciences and to 4th year undergraduate and postgraduate students in the areas of geophysics and acoustical physics

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