

Subsidence Due To Fluid Withdrawal

Unveiling the Magic of Words: A Overview of "**Subsidence Due To Fluid Withdrawal**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Subsidence Due To Fluid Withdrawal**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

Reviews in Engineering Geology David J. Varnes and George Kiersch
Glossary of Selected Terms Useful in Studies of the Mechanics of Aquifer Systems and Land Subsidence Due to Fluid Withdrawal

Joseph Fairfield Poland 1972

Land Subsidence Due to Ground-water Withdrawal, Tulare-Wasco Area, California B. E. Lofgren 1969 A study of land subsidence caused by water-level changes in complex aquifer systems, including analysis of stresses and appraisal of parameters for estimating subsidence.

Compaction of Argillaceous Sediments H.H. Rieke 1974-01-01

Compaction of Argillaceous Sediments

Subsidence Due to Fluid Withdrawal 1985 An extensive review of the literature was conducted in the area of land subsidence due to the withdrawal of fluids. A method of categorizing the citations was developed to facilitate identification of references relating to specific fields of interest. A brief review of the materials represented by the bibliography indicates the state-of-the-art within this area. The bibliography (containing 1225 citations) is presented in its categorized form. 5 figs., 3 tabs.

Geothermal Energy Harsh K. Gupta 2006-12-12 More than 20 countries generate electricity from geothermal resources and about 60 countries make direct use of geothermal energy. A ten-fold increase in geothermal

energy use is foreseeable at the current technology level. *Geothermal Energy: An Alternative Resource for the 21st Century* provides a readable and coherent account of all facets of geothermal energy development and summarizes the present day knowledge on geothermal resources, their exploration and exploitation. Accounts of geothermal resource models, various exploration techniques, drilling and production technology are discussed within 9 chapters, as well as important concepts and current technological developments. Interdisciplinary approach, combining traditional disciplines such as geology, geophysics, and engineering Provides a readable and coherent account of all facets of geothermal energy development Describes the importance of bringing potable water to high-demand areas such as the tropical regions *Land Subsidence in the Santa Clara Valley, California, as of 1982* Joseph Fairfield Poland 1988 A history of land subsidence in the Santa Clara Valley from 1916 to 1982 caused by water-level decline.

Encyclopedia of Coastal Science M. Schwartz 2006-11-08 This new Encyclopedia of Coastal Science stands as the latest authoritative source in the field of coastal studies, making it the standard reference work for specialists and the interested lay person. Unique in its interdisciplinary approach. This Encyclopedia features contributions by 245 well-known international specialists in their respective fields and is abundantly illustrated with line-drawings and photographs. Not only does this

volume offer an extensive number of entries, it also includes various appendices, an illustrated glossary of coastal morphology and extensive bibliographic listings.

Land Subsidence Rijkscommissie voor Geodesie 1995

Land-surface Subsidence in the Houston-Galveston Region, Texas R. K. Gabrysch 1975

Ground Water in the Central Valley, California G. L. Bertoldi 1991

Land Subsidence Case Studies and Current Research James W. Borchers 1998 LAND SUBSIDENCE: CASE STUDIES AND CURRENT RESEARCH edited by James W. Borchers. Land Subsidence is a worldwide problem. Under the auspices of the Association of Engineering Geologists, carefully selected experts contributed papers to this comprehensive compendium. The contributors, from the United States & 10 other countries include practitioners, researchers, planners & attorneys -- experts that you can depend upon. Current & historically significant research: Innovative theory & monitoring equipment. Case histories describing site exploration & evaluation. Predictive modeling. Damage to infrastructure. Engineering of remedial construction. Topics include: Migration or removal of subsurface fluid such as brine, salt water, hydrocarbons. Hydrocompaction of moisture deficient sediments: debris flow deposits, artificial fill. Oxidation of peat deposits. Collapse of underground ad solution mine voids. Tunneling. Karst terrain. Going beyond engineering geology & hydrology, this timely resource includes insight into political & legal issues. Offers an understanding of the public policy decision making processes related to land subsidence. Property rights & land use. Regulatory issues. Topics critical to consulting engineers, planners, developers, attorneys & geologists. Hardcover. 8 1/2 by 11 inches. Extensive illustrations! 576 pages. ISBN: 0-89863 197-1 Star Publishing Company P.O. Box 68, Belmont, CA 94002 Phone (650) 591-3505; fax (650) 591-3898; email mail@starpublishing.com

Fossil Energy Update 1978

Ground-water Flow in the Gulf Coast Aquifer Systems, South Central United States Alex K. Williamson 1990

Energy Research Abstracts 1984

Gas Migration Leonid F. Khilyuk Ph.D. 2000-07-14 This breakthrough new book may help save countless lives and avoid enormous losses. It presents a methodology for using gas migration to predict earthquakes and explosive gas buildup. Using rigorous scientific investigation and documented worldwide case histories, this remarkable book presents compelling evidence showing that changes in gas rates, composition, and migration accompany the tectonic events preceding earthquakes and their associated seismic events, such as volcanoes and tsunamis. Because these gas parameters are detectable and measurable, they provide an early warning of seismic activity. Gas Migration is the first book to accumulate, analyze and apply the interdisciplinary knowledge on gas migration and detail its connection to tectonic, seismic, and geologic phenomena. It combines geological, geochemical, geophysical, seismological, and petroleum engineering insights to demonstrate how gas migration and its associated phenomena can be used in earthquake and environmental geohazard identification and prediction. Topics include- · Tectonics and Earthquakes · Gas Migration at Plate Boundaries · Surface Soil-Gas Surveys · Faults and Petroleum Reservoirs · Earthquake Precursors · Whispering Gases · Paths and Mechanics of Gas Migration · Subsidence, Gas Migration, and Seismic Activity · And much more With this information, environmental specialists, civil engineers, petroleum geologists, seismologists, and urban planners now have a new and powerful conceptual basis and tool for understanding and perhaps even predicting gas explosions and earthquakes.

Induced Seismicity Potential in Energy Technologies National Research Council 2013-08-14 In the past several years, some energy technologies that inject or extract fluid from the Earth, such as oil and gas development and geothermal energy development, have been found or suspected to cause seismic events, drawing heightened public attention. Although only a very small fraction of injection and extraction activities among the hundreds of thousands of energy development sites in the United States have induced seismicity at levels noticeable to the public, understanding the potential for inducing felt seismic events and for limiting their occurrence and impacts is desirable for state and

federal agencies, industry, and the public at large. To better understand, limit, and respond to induced seismic events, work is needed to build robust prediction models, to assess potential hazards, and to help relevant agencies coordinate to address them. Induced Seismicity Potential in Energy Technologies identifies gaps in knowledge and research needed to advance the understanding of induced seismicity; identify gaps in induced seismic hazard assessment methodologies and the research to close those gaps; and assess options for steps toward best practices with regard to energy development and induced seismicity potential.

U.S. Geological Survey Subsidence Interest Group Conference 1997 Land subsidence is the loss of surface elevation as a result of the removal of subsurface support. The mechanisms by which this can occur may be natural in origin or induced by human activities. Common causes of land subsidence include the removal of oil, gas, and water from underground reservoirs; dissolution of limestone aquifers (sinkholes); underground mining activities; drainage of organic soils; and hydrocompaction (the initial wetting of dry soils). Overdraft of aquifers is the major cause of a really extensive land subsidence, and as ground-water pumping increases, land subsidence also will increase. The U.S. Geological Survey (USGS) has a long-standing history of describing, mapping, and conducting process-oriented research in land subsidence. In 1955, the Geological Survey formed the Mechanics of Aquifers Project under the direction of Joseph F. Poland to study the processes that result in land subsidence due to the withdrawal of ground water. From 1955 to 1984, this research team gained international renown as they advanced the understanding of aquifer mechanics and land-subsidence theory. In addition to conducting pioneering research, this group also provided a focal point within the USGS for the dissemination of technology and scientific understanding in aquifer mechanics.

Inverse Problem for Finding Parameters that Control Land Subsidence Caused by Subsurface Fluid Withdrawal Yi Liu 2006

Land subsidence attributable to the compaction (consolidation) of aquifer systems is recognized to be a geological hazard. It is an environmental

consequence of groundwater withdrawal in many cities and other areas worldwide. Prediction of land subsidence due to subsurface fluid withdrawal (whether the fluid is oil, gas, water, stream, or geopressure brine) depends on the quantitative identification of parameters for a selected theoretical model. A new inverse algorithm (InvCOMPAC) for finding transient land subsidence parameters due to the combined compression and expansion of one or more confined aquifer systems in response to ground fluid withdrawal is developed in this dissertation. It consists of combining the Newton-Raphson adjustment algorithm and Helm's one-dimensional finite-difference compaction (or consolidation) model (COMPAC). The subsidence (or consolidation) model can be replaced by any appropriate model. This inverse code (or algorithm) identifies five parameters that control transient land subsidence at a site of interest: vertical hydraulic conductivity of compressible aquitards, K' , nonrecoverable S'_{skv} , and recoverable S'_{ske} specific storage of the aquitards, specific storage of the aquifer, $S S$, and an initial vertical distribution, p'_{max0} , of maximum past preconsolidation pressure within the confined aquifer system. For computational convenience, p'_{max0} may or may not be considered to be uniform. K' , S'_{skv} , S'_{ske} , and $S S$ are constants for the constant-parameter option or indicate only the initial values for the stress-dependent parameter option of Helm's model. An initial set of estimated values for these five parameters is found to be necessary in order to apply the inverse algorithm to an idealized compressible confined aquifer system. A new graphical-analytic method is introduced for estimating a realistic initial set of these values. The idealized data for developing this method is from COMPAC's calculation of compression and expansion in response to both long-term nondeclining sinusoidal boundary stress and also long-term declining sinusoidal boundary stress. This methodology is based on delay time constants of clay consolidation, the elastic hysteresis loop of clay stress-strain relationships, and Darcy's law. An investigation of this idealized model shows that the relative error of these five parameters found by applying the inverse model to calculated compaction using initial values of the parameters simply obtained from this methodology is 1.2~6.3%.

(Abstract shortened by UMI.) -- Abstract.

Regional and Local Subsidence in Louisiana 1984 The measurement of local, man-induced subsidence is especially critical in areas with high rates of land loss. To measure this subsidence, absolute historical geodetic movements have been estimated by adjusting all movements along the first-order vertical control network from northeast to southwest Louisiana as related to the Monroe uplift. The adjustment will serve as a base line by which local subsidence or uplift can be measured. A generalized trend of increasing subsidence to the south in Louisiana probably reflects increasing sediment thickness and weight toward the axis of the Gulf Coast basin. Anomalous values as low as -17.6 mm/y (-0.7 in./y) occur in areas overlying Pleistocene and Holocene fluvial elements. Positive movement as high as +4.1 mm/y (+0.2 in./y), has been found to be associated with the Iberian structural axis in south-central Louisiana. Land subsidence due to natural causes may far outweigh subsidence resulting from fluid withdrawal or depressurization of geopressed aquifers. The effects of regional and local natural processes should not be underestimated in any systematic approach to measuring subsidence.

Mitigating Losses from Land Subsidence in the United States Panel on Land Subsidence 1991-01-01

Humans as Geologic Agents Judy Ehlen 2005-01-01

Land Subsidence Frans B. J. Barends 1995

Subsidence Due to Geothermal Fluid Withdrawal 1982 Single-phase and two-phase geothermal reservoirs are currently being exploited for power production in Italy, Mexico, New Zealand, the U.S. and elsewhere. Vertical ground displacements of upto 4.5 m and horizontal ground displacements of up to 0.5 m have been observed at Wairakei, New Zealand that are clearly attributable to the resource exploitation. Similarly, vertical displacements of about 0.13 m have been recorded at The Geysers, California. No significant ground displacements that are attributable to large-scale fluid production have been observed at Larderello, Italy and Cerro Prieto, Mexico. Observations show that subsidence due to geothermal fluid production is characterized by such

features as an offset of the subsidence bowl from the main area of production, time-lag between production and subsidence and nonlinear stress-strain relationships. Several plausible conceptual models, of varying degrees of sophistication, have been proposed to explain the observed features. At present, relatively more is known about the physical mechanisms that govern subsidence than the relevant thermal mechanisms. Although attempts have been made to simulate observed geothermal subsidence, the modeling efforts have been seriously limited by a lack of relevant field data needed to sufficiently characterize the complex field system.

Investigation of land subsidence and earth fissures in Cedar

Valley, Iron County, Utah Paul Inkenbrandt 2014-03-12 This 116-page report presents the results of an investigation by the Utah Geological Survey of land subsidence and earth fissures in Cedar Valley, Iron County, Utah. Basin-fill sediments of the Cedar Valley Aquifer contain a high percentage of fine-grained material susceptible to compaction upon dewatering. Groundwater discharge in excess of recharge (groundwater mining) has lowered the potentiometric surface in Cedar Valley as much as 114 feet since 1939. Groundwater mining has caused permanent compaction of fine-grained sediments of the Cedar Valley aquifer, which has caused the land surface to subside, and a minimum of 8.3 miles of earth fissures to form. Recently acquired interferometric synthetic aperture radar imagery shows that land subsidence has affected approximately 100 mi² in Cedar Valley, but a lack of accurate historical benchmark elevation data over much of the valley prevents its detailed quantification. Continued groundwater mining and resultant subsidence will likely cause existing fissures to lengthen and new fissures to form which may eventually impact developed areas in Cedar Valley. This report also includes possible aquifer management options to help mitigate subsidence and fissure formation, and recommended guidelines for conducting subsidence-related hazard investigations prior to development.

Encyclopedia of Engineering Geology Peter T. Bobrowsky 2018-08-03

This volume addresses the multi-disciplinary topic of engineering

geology and the environment, one of the fastest growing, most relevant and applied fields of research and study within the geosciences. It covers the fundamentals of geology and engineering where the two fields overlap and, in addition, highlights specialized topics that address principles, concepts and paradigms of the discipline, including operational terms, materials, tools, techniques and methods as well as processes, procedures and implications. A number of well known and respected international experts contributed to this authoritative volume, thereby ensuring proper geographic representation, professional credibility and reliability. This superb volume provides a dependable and ready source of information on approximately 300 topical entries relevant to all aspects of engineering geology. Extensive illustrations, figures, images, tables and detailed bibliographic citations ensure that the comprehensively defined contributions are broadly and clearly explained. The Encyclopedia of Engineering Geology provides a ready source of reference for several fields of study and practice including civil engineers, geologists, physical geographers, architects, hazards specialists, hydrologists, geotechnicians, geophysicists, geomorphologists, planners, resource explorers, and many others. As a key library reference, this book is an essential technical source for undergraduate and graduate students in their research.

Teachers/professors can rely on it as the final authority and the first source of reference on engineering geology related studies as it provides an exceptional resource to train and educate the next generation of practitioners.

Man-induced Land Subsidence Thomas L. Holzer 1984

Investigation of Land Subsidence Due to Fluid Withdrawal

Prepared by the Land Subsidence Task Committee 2021 Investigation of Land Subsidence due to Fluid Withdrawal provides a detailed overview of the occurrence and control of land subsidence due to fluid withdrawal.

Subsidence due to Fluid Withdrawal E.C. Donaldson 1995-03-29

Subsidence of geologic surface structures due to withdrawal of fluids from aquifers and petroleum reservoirs is a phenomenon experienced throughout the world as the demand for water and hydrocarbons

increases with increasing population growth. This book addresses the definition and theories of subsidence, and the influences of unique conditions on subsidence; it includes discussions of specific field cases and a basic mathematical model of reservoir compaction and accompanying loss of porosity and permeability. The book is designed as a reference for readers giving immediate access to the geological events that establish conditions for compaction, the mathematical theories of compaction and subsidence, and practical considerations of field case histories in various regions of the world.

Sea-Level Rise for the Coasts of California, Oregon, and Washington

National Research Council 2012-12-06 Tide gauges show that global sea level has risen about 7 inches during the 20th century, and recent satellite data show that the rate of sea-level rise is accelerating. As Earth warms, sea levels are rising mainly because ocean water expands as it warms; and water from melting glaciers and ice sheets is flowing into the ocean. Sea-level rise poses enormous risks to the valuable infrastructure, development, and wetlands that line much of the 1,600 mile shoreline of California, Oregon, and Washington. As those states seek to incorporate projections of sea-level rise into coastal planning, they asked the National Research Council to make independent projections of sea-level rise along their coasts for the years 2030, 2050, and 2100, taking into account regional factors that affect sea level. *Sea-Level Rise for the Coasts of California, Oregon, and Washington: Past, Present, and Future* explains that sea level along the U.S. west coast is affected by a number of factors. These include: climate patterns such as the El Niño, effects from the melting of modern and ancient ice sheets, and geologic processes, such as plate tectonics. Regional projections for California, Oregon, and Washington show a sharp distinction at Cape Mendocino in northern California. South of that point, sea-level rise is expected to be very close to global projections. However, projections are lower north of Cape Mendocino because the land is being pushed upward as the ocean plate moves under the continental plate along the Cascadia Subduction Zone. However, an earthquake magnitude 8 or larger, which occurs in the region every few hundred to 1,000 years, would cause the land to

drop and sea level to suddenly rise.

Glossary of Selected Terms Useful in Studies of the Mechanics of Aquifer Systems and Land Subsidence Due to Fluid Withdrawal Geological Survey (U.S.) 1970

Guidebook to Studies of Land Subsidence Due to Ground-water Withdrawal Joseph Fairfield Poland 1984

Recent Trends in Hydrogeology Thirupudaimarudhur N. Narasimhan 1982-01-01

Land Subsidence Due to Ground-water Withdrawal in the Los Banos-Kettleman City Area, California William B. Bull 1975

Subsidence D.J. Reddish 2012-12-02 Surface subsidence is recognised as a problem in most countries, particularly those with significant mining and other underground resource extraction industries. This book addresses the problems relating to subsidence whether caused naturally, or arising from mining or other forms of underground extractive activity. The main purpose of this book is to bring together subsidence knowledge, experiences and research findings in many countries and rationalise such information especially in respect of its particular field of application. Emphasis has been given to collating field data on subsidence from different countries in order to make direct comparisons. Prediction of subsidence, particularly its occurrence and general characteristics has been seen as an important area where the book can contribute significantly in terms of reviewing available knowledge, methods, scope of application and orders of accuracy achieved. The book also examines methods of controlling subsidence and discusses the response of surface structures to and protection against subsidence.

The Analysis of Subsidence Associated with Geothermal Development: Handbook 1976

Glossary of selected terms useful in studies of the mechanics of aquifer systems and land subsidence due to fluid withdrawal. Joseph Fairfield Poland 1973

Flooding and Management of Large Fluvial Lowlands Paul F. Hudson 2021-11-25 Examines interrelations between flood management, flooding, and environmental change, for advanced students, researchers,

and practitioners.

Scientific Investigations Report Sharon E. Kroening 2004

Development of a Model Applied to Subsidence Due to Fluid Withdrawal Dali Gu 1994 "The visco-elastic model is applied to analyze and predict the land subsidence in Bangkok, Thailand. The results demonstrate that the visco-elastic model can yield a satisfactory prediction of consolidation that is better than that obtained with the classical Theis-Jacob approach."

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