Sumbarine Permafrost On The Alaskan Continental Shelf

Sumbarine Permafrost On The Alaskan Continental Shelf Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Sumbarine Permafrost On The Alaskan Continental Shelf**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

U.S. Geological Survey Circular 1984
Outer Continental Shelf Environmental Assessment Program, Final Reports of Principal Investigators 1985
Outer Continental Shelf Environmental Assessment Program Comprehensive Bibliography, July 1986 1986
List of U.S. Geological Survey Geologic and Water-supply Reports and Maps for Alaska Geological Survey (U.S.) 1987
Bibliography on Snow, Ice and Frozen Ground, with Abstracts 1983
Modeling of Permafrost and Gas Hydrate Stability Zone Within Alaskan Arctic Shelves and Continental Margins Sergei I. Pokrovsky 2003 "A mathematical model was used to determine the behavior of the thermal regime and temperature and pressure conditions due to climate and sea level variations of the gas hydrate stability zone formation at four sites within the Alaskan Arctic Shelf. Two soil types, coarse-grained and fine-grained, and three types of programs were used. The programs were distinguished by whether or not they took unfrozen water and latent heat into account. Simulations suggest the presence of subsea permafrost in a vast area of shelf near Prudhoe Bay. Near Barrow and Lonely subsea permafrost extends up to several tens of kilometers offshore, while subsea permafrost near Cape Thompson almost completely disappeared during the last marine transgression. Distribution of subsea permafrost varies with soil type, thermal properties and geothermal heat flow. The possible presence of methane gases in a pore space of the material influences the thermal regime and permafrost distribution. Simulations indicate that a Gas Hydrate Stability Zone can exist at depths from 220 m to 1100 m. Possible formation and presence of gas hydrates in the sediments changes the thermal regime significantly; therefore the shape of subsea permafrost depends on whether or not gases are present in the sediments"--Leaf iii.
Environmental Information for Outer Continental Shelf Oil and Gas Decisions in Alaska National Research Council 1994-02-01 This book reviews the adequacy of information available for predicting and managing the environmental and human effects of oil and gas activities on Alaska's Outer Continental Shelf (OCS). It examines how the Alaskan OCS and adjacent onshore natural and human environments differ from those in more temperate waters and to what degree the information characterizes those differences. (It also recommends alternatives to further studies in some cases where more information would be helpful for decisionmaking.)
Treatise on Estuarine and Coastal Science 2012-03-06 The study of estuaries and coasts has seen enormous growth in recent years, since changes in these areas have a large effect on the food chain, as well as on the physics and chemistry of the ocean. As the coasts and river banks around the world become more densely populated, the pressure on these ecosystems

intensifies, putting a new focus on environmental, socio-economic and policy issues. Written by a team of international expert scientists, under the guidance of Chief Editors Eric Wolanski and Donald McClusky, the Treatise on Estuarine and Coastal Science, Ten Volume Set examines topics in depth, and aims to provide a comprehensive scientific resource for all professionals and students in the area of estuarine and coastal science Most up-to-date reference for system-based coastal and estuarine science and management, from the inland watershed to the ocean shelf Chief editors have assembled a world-class team of volume editors and contributing authors Approach focuses on the physical, biological, chemistry, ecosystem, human, ecological and economics processes, to show how to best use multidisciplinary science to ensure earth's sustainability Provides a comprehensive scientific resource for all professionals and students in the area of estuarine and coastal science Features up-to-date chapters covering a full range of topics

Subsea Permafrost in Harrison Bay, Alaska K. G. Neave 1982

Outer Continental Shelf Environmental Assessment Program 1991

Office of Science and Technology Policy United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies 1983

CENFOR United States. Bureau of the Census 1971

Alaska Regional Studies Plan Alaska Outer Continental Shelf Office 1978

Submarine Permafrost On The Alaskan Continental Shelf Michael E. Vigdorchik 2019-09-05 This book is the second in a series on arctic and alpine environments produced by Dr. Michael Vigdorchik at the Institute of Arctic and Alpine Research (INSTAAR), University of Colorado, Boulder. The first carried the title Arctic Pleistocene History and the Development of Submarine Permafrost. The complicated Arctic Basin development during the Pleistocene has been described in that book, including the paleoenvironmental problems posed by the isolation of the Arctic Basin during the Ice Ages. This sequel concerns the identification and estimation of the potential hazards posed by the arctic environment to petroleum exploration and development on the Alaskan continental shelf.

World Atlas of Submarine Gas Hydrates in Continental Margins Jürgen Mienert 2022-01-01 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, electromagnetic 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.

Comprehensive Bibliography 1988

Elements of Physical Oceanography John H. Steele 2009-12-16 Elements of Physical Oceanography is a derivative of the Encyclopedia of Ocean Sciences, 2nd Edition and serves as an important reference on current physical oceanography knowledge and expertise in one convenient and accessible source. Its selection of articles—all written by experts in their field—focuses on ocean physics, air-sea transfers, waves, mixing, ice, and the processes of transfer of properties such as heat, salinity, momentum and dissolved gases, within and into the ocean. Elements of Physical Oceanography serves as an ideal reference for topical research. References related articles in physical oceanography to facilitate further research Richly illustrated with figures and tables that aid in understanding key concepts Includes an introductory overview and then explores each topic in detail, making it useful to experts and graduate-level researchers Topical arrangement makes it the perfect desk reference

Tenth Anniversary Seminar ; Passive Microwave Users Workshop ; Microwave Radiometry Bibliography Claire S. Hanson 1977

Department of Housing and Urban Development--independent Agencies Appropriations for 1984 United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies 1983

The United States Geological Survey in Alaska, Accomplishments During ... 1984

Selected Water Resources Abstracts 1980

Geological Survey of Canada, Open File 1135

The Diapir Field Environment and Possible Consequences of Planned Offshore Oil and Gas Development Paul R. Becker 1987

Geologic Report for the Beaufort Sea Planning Area, Alaska James D. Craig 1986

CRREL Technical Publications Cold Regions Research and Engineering Laboratory (U.S.) 1981

Encyclopedia of Ocean Sciences 2019-04-12 The oceans cover 70% of the Earth’s surface, and are critical components of Earth’s climate system. This new edition of Encyclopedia of Ocean Sciences, Six Volume Set summarizes the breadth of knowledge about them, providing revised, up to date entries as well coverage of new topics in the field. New and expanded sections include microbial ecology, high latitude systems and the cryosphere, climate and climate change, hydrothermal and cold seep systems. The structure of the work provides a modern presentation of the field, reflecting the input and different perspective of chemical, physical and biological oceanography, the specialized area of expertise of each of the three Editors-in-Chief. In this framework maximum attention has been devoted to making this an organic and unified reference. Represents a one-stop. organic information resource on the breadth of ocean science research Reflects the input and different perspective of chemical, physical and biological oceanography, the specialized area of expertise of each of the three Editors-in-Chief New and expanded sections include microbial ecology, high latitude systems and climate change Provides scientifically reliable information at a

foundational level, making this work a resource for students as well as active researches
Environmental Assessment of the Alaskan Continental Shelf 1980
Submarine Permafrost On The Alaskan Continental Shelf Michael E. Vigdorchik 2019-09-05 This book is the second in a series on arctic and alpine environments produced by Dr. Michael Vigdorchik at the Institute of Arctic and Alpine Research (INSTAAR), University of Colorado, Boulder. The first carried the title Arctic Pleistocene History and the Development of Submarine Permafrost. The complicated Arctic Basin development during the Pleistocene has been described in that book, including the paleoenvironmental problems posed by the isolation of the Arctic Basin during the Ice Ages. This sequel concerns the identification and estimation of the potential hazards posed by the arctic environment to petroleum exploration and development on the Alaskan continental shelf.
The Natural Geochemistry Of Our Environment David H Speidel 2019-09-10 The Natural Geochemistry of Our Environment shows that the Earth is a water world, whose water is transformed readily from the solid to the liquid to the gaseous state. This book, is an outgrowth of a report prepared in 1979 by Drs. Speidel and Agnew for the U.S. Science, Research, and Technology Subcommittee, provides just such a background to enables one to comprehend the natural system and the way that human activities affect that environment.
Glaciological Data 1977
Meccanica Dei Sistemi Suoluo-veicolo 1981
Permafrost 1983
Outer Continental Shelf Environmental Assessment Program Comprehensive Bibliography, June 1990 Outer Continental Shelf Environmental Assessment Program 1990
Bibliography and Index of Geology 1992
Comprehensive Bibliography Outer Continental Shelf Environmental Assessment Program 1986
Selected Water Resources Abstracts 1980
Arctic Pleistocene History And The Development Of Submarine Permafrost Michael E. Vigdorchik 2019-04-05 The regional distribution, composition, structures, thermal state and regime, thermophysical characteristics, and dynamics of temperature changes of submarine permafrost are considered, based on Eurasiatic shelf data. The origin and development of permafrost is closely connected with the specifics of Arctic Basin development during the Pleistocene
Workshop on the U.S. Antarctic Meteorological Data Delivery System Claire S. Hanson 1988
Glacial Geology N. Eyles 2013-10-22 An introduction for courses that involve some knowledge of glacial geology and sediments of formerly glaciated terrains. The early chapters describe depositional processes at modern glacier and ice-sheet margins relating sediments and landforms in recurring "landsystems". Later chapters portray the distribution of these landsystems in Pleistocene glaciated terrains of the mid-latitudes, focussing on commonly encountered problems in various fields from stratigraphic and sedimentological investigations to construction problems relating to roads and dams. The resulting text is a summation of a large body of literature previously accessible only to specialists. A substantial reference list is complemented by cross-references throughout.
The United States Geological Survey in Alaska 1984

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