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Catalog of Copyright Entries

1946

treatise on geophysics geomagnetism volume 5 provides an overview of the most important aspects of geomagnetism the book begins by tracing the history of the study of geomagnetism it then reviews global models of the earth s magnetic field the main sources of external magnetic field contributions and the instruments and practices used to observe and measure the full range of features of the geomagnetic field it discusses the origins of current knowledge of the secular variation of the earth s magnetic field crustal magnetism geomagnetic excursions the study of geophysical electromagnetic induction the magnetization process and the status of recent magnetic field data and their applications the remaining chapters cover the geometry of the geomagnetic field and its temporal variability as recorded in volcanic and sedimentary rocks over the past few million years the ocean crust as a recorder of geomagnetic field variations and the theoretical basis for paleointensity experiments in igneous and sedimentary environments the final chapter explains the concept of true polar wander tpw defined as shifts in the geographic location of earth s daily rotation axis and or by fluctuations in the spin rate length of day anomalies self contained volume starts with an overview of the subject then explores each topic with in depth detail extensive reference lists and cross references with other volumes to facilitate further research full color figures and tables support the text and aid in understanding content suited for both the expert and non expert

MotorBoating

1995-04

magma to microbe published by the american geophysical union as part of the geophysical monograph series volume 178 hydrothermal systems at oceanic spreading centers reflect the complex interactions among transport cooling and crystallization of magma fluid circulation in the crust tectonic processes water rock interaction and the utilization of hydrothermal fluids as a metabolic energy source by microbial and macro biological ecosystems the development of mathematical and numerical models that address these complex linkages is a fundamental part the ridge 2000 program that attempts to quantify and model the transfer of heat and chemicals from mantle to microbes at oceanic ridges this volume presents the first state of the art picture of model development in this context the most outstanding feature of this volume is its emphasis on mathematical and numerical modeling of a broad

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array of hydrothermal processes associated with oceanic spreading centers by examining the state of model development in one volume both cross fertilization of ideas and integration across the disparate disciplines that study seafloor hydrothermal systems is facilitated students and scientists with an interest in oceanic spreading centers in general and more specifically in ridge hydrothermal processes will find this volume to be an up to date and indispensable resource

Annual Report of the Board of Health of the State of New Jersey

1896

the advent of the nuclear age in 1945 fundamentally altered the course of human events the oceans are not the focus of the nuclear age but the affairs of the oceans are deeply woven into the history of that age knowledge of what the nuclear age has meant for the oceans however is highly fragmented and there exists a surprising gap in research on the impact of the nuclear age on the oceans and on ocean law and policy ranging from dumped wastes to transportation to security this study frames the complex multidimensional set of relationships between the oceans and the nuclear age and illuminates patterns of impact and response in ocean law this timely expanded edition includes a new chapter by It todd hutchins usn on nuclear risks in coastal areas legal and regulatory responses it provides a full discussion of the 2011 coastal fukushima nuclear power plant disaster together with analysis more generally of the challenges to the environment and to the legal order globally that are posed by coastal siting of nuclear power plants

Annual report of the Department of Health of the State of New Jersey. 1891-92

1891

deep subsurface microbiology is a highly active and rapidly advancing research field at the interface of microbiology and the geosciences it focuses on the detection identification quantification cultivation and activity measurements of bacteria archaea and eukaryotes that permeate the subsurface biosphere of deep marine sediments and the basaltic ocean and continental crust the deep subsurface biosphere abounds with uncultured only recently discovered and at best incompletely understood microbial populations in spatial extent and volume earth s subsurface biosphere is only rivaled by the deep sea water column so far no deep subsurface sediment has been found that is entirely devoid of microbial life microbial cells and dna remain detectable at sediment depths of more than 1 km microbial life permeates deeply buried hydrocarbon reservoirs and is also found several kilometers down in continental crust aquifers severe energy limitation either as electron acceptor or donor shortage and scarcity of microbially degradable organic carbon sources are among the evolutionary pressures that have shaped the genomic and physiological repertoire of the deep subsurface biosphere its biogeochemical role as long term organic carbon repository inorganic electron and energy source and subduction recycling engine continues to be explored by current research at the interface of microbiology geochemistry and biosphere

~~geosphere evolution this research topic addresses some of the central research questions~~
about deep subsurface microbiology and biogeochemistry phylogenetic and physiological microbial diversity in the deep subsurface microbial activity and survival strategies in severely energy limited subsurface habitats microbial activity as reflected in process rates and gene expression patterns biogeographic isolation and connectivity in deep subsurface microbial communities the ecological standing of subsurface biospheres in comparison to the surface biosphere an independently flourishing biosphere or mere survivors that tolerate burial along with organic carbon compounds or a combination of both advancing these questions on earth s deep subsurface biosphere redefines the habitat range environmental tolerance activity and diversity of microbial life

Geomagnetism

2010-05-11

treatise on geophysics second edition is a comprehensive and in depth study of the physics of the earth beyond what any geophysics text has provided previously thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics a highlight of the second edition is a new volume on near surface geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution additional features include new material in the planets and moon mantle dynamics core dynamics crustal and lithosphere dynamics evolution of the earth and geodesy volumes new material is also presented on the uses of earth gravity measurements this title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of geophysics and earth system science comprehensive and detailed coverage of all aspects of geophysics fundamental and state of the art discussions of all research topics integration of topics into a coherent whole

□□□□□

2006

over the last two decades exploration of the deep subsurface biosphere has developed into a major research area new findings constantly challenge our concepts of global biogeochemical cycles and the ultimate limits to life in order to explain our observations from deep subsurface ecosystems it is necessary to develop truly interdisciplinary approaches ranging from microbiology and geochemistry to physics and modeling this book aims to bring together a wide variety of topics covering the broad range of issues that are associated with deep biosphere exploration not only does the book present case studies of selected projects but also treats questions arising from our current knowledge despite nearly two decades of research there are still many boundaries to exploration caused by technical limitations and one section of the book is devoted to these technical challenges and the latest developments in this field this volume will be of high interest to biologists chemists and earth scientists all working on the deep biosphere

Boating

1995-07

this volume combines review and solicited contributions related to scientific studies of division i of iaga presented at its scientific assembly in sopron in 2009 the book is aimed at intermediate to advanced readers dealing with the earth s magnetic field generation its historical records in rocks and geological formations including links to geodynamics and magnetic dating with magnetic carriers in earth materials electromagnetic induction and conductivity studies of the earth interior with environmental applications of rock magnetism and electromagnetism the aim of the book is to provide an overview of recent advances and future challenges in these particular fields of research

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published by the american geophysical union as part of the geophysical monograph series volume 144 awareness has grown over the past several years that the subseafloor may harbor a substantial biosphere sustained by volcanic heat and chemical fluxes from the earth s interior this realization has profound scientific implications for questions concerning the origins of life the true extent of earth s biosphere and the search for life on other planets at mid ocean spreading centers the fluxes that sustain life are the highest and the hydrothermal fluids in which micro organisms grow are readily accessible on the seafloor in addition periodic volcanic eruptions flush fluids and microbes from the subsurface and volcanic gases are believed to drive spectacular microbial blooms although ridges are challenging locations in which to work they are unique in the oceans because of the diversity and dynamic nature of their subsurface environments

Ocean Dumping Act Amendments of 1985

1985

processes that enable marine phytoplankton to acquire trace metals are fundamental to our understanding of primary productivity and global carbon cycling this thesis explored the biogeochemistry of cobalt using analytical chemistry and physiological experiments with the dominant phytoplankton species prochlorococcus a high sensitivity method for co speciation

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was developed using hanging mercury drop cathodic stripping voltammetry dissolved co at the bermuda atlantic time series station bats in the sargasso sea was bound by strong organic complexes with a conditional stability constant of $\log K = 16.309$ biweekly time series measurements of total cobalt near bermuda from the mites sampler were $0.47 \mu\text{M}$ throughout 1999 and averaged $20.10 \mu\text{M}$ in 1999 a transect of total cobalt from bats to american coastal waters ranged from $19.133 \mu\text{M}$ and correlated negatively with salinity $r = 0.93$ prochlorococcus strains med4 ax and ss120 showed an absolute requirement for co despite replete zn co uptake rates and growth rates were enhanced by additions of filtered low co cultures suggesting that a ligand is present that facilitates co uptake co limited prochlorococcus cultures exhibited an increase in the fraction of cells in g2 relative to other cell cycle stages during exponential growth and the durations of this stage increased with decreasing cobalt concentrations

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