

# DOUBLE-DIFFUSION CONNECTION



# Double Diffusive Convection Geophysical Monograph Ser

**Robert D. van der Hilst**



## **Double Diffusive Convection Geophysical Monograph Ser:**

**Double-Diffusive Convection** Alan Brandt, H. J. S. Fernando, 1995-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 94 The existence of double diffusive convection and the associated visually dramatic and dynamically significant salt fingers as a molecular instability mechanism that can naturally arise in the ocean was first recognized in the late 1950s Since then research in this area has increased almost exponentially and new applications of the basic phenomenology continue to arise At this time the importance of double diffusive convection DDC has been recognized in fields as diverse as geophysics astrophysics metallurgy and chemistry as well as in the parent field ocean physics In each of these fields the small scale DDC phenomenology has been shown or at least postulated to be a critical driver for large even global scale processes Examples include DDC as a mechanism for maintaining the ocean thermocline and thus the global circulation pattern and DDC as a factor in convection of the Earth's mantle and at the core mantle boundary

**The Physical Oceanography of the Arctic Mediterranean Sea** Bert Rudels, 2021-09-19 The Physical Oceanography of the Arctic Mediterranean Sea describes the circulation and the processes in the Arctic Mediterranean how our present knowledge has developed and presents recent changes caused by a gradually warmer global climate The Arctic Mediterranean Sea has been intensively studied in recent years especially during the fourth International Polar Year 2007-09 and we have become increasingly aware of the changes presently taking place This book collects and presents newly acquired knowledge and sets it in perspective to previous studies Authored by a world renowned leader in the field this book explores the role of this small but important sea in the global oceanic circulation and climate a must read for researchers and students in the fields of oceanography and climate science Relates observed features to active processes and provides sufficient background information to understand the theoretical explanations Presents the Arctic Mediterranean Sea in the context of global ocean circulation and climate Presents a modern comprehensive and coherent treatment of Arctic and subarctic physical oceanography

Advances in Passive Microwave Remote Sensing of Oceans Victor Raizer, 2017-03-27 This book demonstrates the capabilities of passive microwave technique for enhanced observations of ocean features including the detection of sub surface events and or disturbances while laying out the benefits and boundaries of these methods It represents not only an introduction and complete description of the main principles of ocean microwave radiometry and imagery but also provides guidance for further experimental studies Furthermore it expands the analysis of remote sensing methods models and techniques and focuses on a high resolution multiband imaging observation concept Such an advanced approach provides readers with a new level of geophysical information and data acquisition granting the opportunity to improve their expertise on advanced microwave technology now an indispensable tool for diagnostics of ocean phenomena and disturbances

Remote Sensing of Turbulence Victor Raizer, 2021-10-03 This book offers a unique multidisciplinary integration of the physics of turbulence and remote sensing technology Remote Sensing of Turbulence

provides a new vision on the research of turbulence and summarizes the current and future challenges of monitoring turbulence remotely The book emphasizes sophisticated geophysical applications detection and recognition of complex turbulent flows in oceans and the atmosphere Through several techniques based on microwave and optical IR observations the text explores the technological capabilities and tools for the detection of turbulence their signatures and variability FEATURES Covers the fundamental aspects of turbulence problems with a broad geophysical scope for a wide audience of readers Provides a complete description of remote sensing capabilities for observing turbulence in the earth s environment Establishes the state of the art remote sensing techniques and methods of data analysis for turbulence detection Investigates and evaluates turbulence detection signatures their properties and variability Provides cutting edge remote sensing applications for space based monitoring and forecasts of turbulence in oceans and the atmosphere This book is a great resource for applied physicists the professional remote sensing community ecologists geophysicists and earth scientists

**Diffusion in Minerals and Melts** Youxue Zahng,Daniele J. Cherniak,2018-12-17 Volume 72 of Reviews in Mineralogy and Geochemistry represents an extensive compilation of the material presented by the invited speakers at a short course on Diffusion in Minerals and Melts held prior December 11 12 2010 to the Annual fall meeting of the American Geophysical Union in San Francisco California The short course was held at the Napa Valley Marriott Hotel and Spa in Napa California and was sponsored by the Mineralogical Society of America and the Geochemical Society **Ecosystem Modeling as a Management Tool for the Black Sea** Leonid I. Ivanov,Temel Oguz,1998 This text tackles complex scientific problems related to the evolution of the Black Sea ecosystem Of the 20 papers appearing in this volume nine are physical processes and 11 are on the modelling of the circulation and the ecosystems of the Black Sea Double-diffusive Processes Stephen P. Meacham,Dacia Tucholke,1997 The physics of double diffusion and the role that it plays in the ocean provided the central theme for the 1996 summer program in Geophysical Fluid Dynamics at the Woods Hole Oceanographic Institution Lectures and seminars given by staff and visitors surveyed observations laboratory experiments and theoretical models of double diffusive phenomena Several lectures dealt with the related phenomena of thermal convection in layered media the dynamics of binary fluids viscoelastic convection and magnetoconvection Research projects by the fellows included experiments with double diffusion in a slot work on the formation and evolution of staircases double diffusion in stars and the interaction between convection and radiation This volume includes write ups of the principal lectures reports of the fellows research projects and abstracts of some of the seminars A list of presentations and a bibliography may be found at the back of the volume *Eesti Teaduste Akadeemia Toimetised* ,2000 The Controlled Flood in Grand Canyon Robert H. Webb,1999-01-26 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 110 The natural flow of almost every river in the United States has been modified to meet various socioeconomic goals navigation irrigation power generation and flood control The success of the dams and reservoirs built to achieve these goals has been

accompanied by changes in the status of riverine resources downstream a cause of growing environmental and ecological concern For example before Glen Canyon Dam was completed the Colorado River transported large quantities of sediment in floods as large as 8500 m<sup>3</sup> s After the dam was closed in 1963 dam releases typically were less than the powerplant capacity of 890 m<sup>3</sup> s and exhibited large daily flow fluctuations The river carried little sediment The daily fluctuations in flow eroded sand bars and the smaller controlled flow did not redeposit them The clear cold water resulted in increased aquatic productivity such that rainbow trout and other nonnative fishes thrived while most native species were lost or endangered

**Magnetic Helicity in Space and Laboratory Plasmas** Michael R. Brown, Richard C. Canfield, Alexei A.

Pevtsov, 1999-01-26 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 111 Using the concept of magnetic helicity physicists and mathematicians describe the topology of magnetic fields twisting writhing and linkage Mathematically helicity is related to linking integrals which Gauss introduced in the 19th century to describe the paths of asteroids in the sky In the late 1970s the concept proved to be critical to understand laboratory plasma experiments on magnetic reconnection dynamos and magnetic field relaxation In the late 1980s it proved equally important in understanding turbulence in the solar wind and the interplanetary magnetic field During the last five years interest in magnetic helicity has grown dramatically in solar physics and it will continue to grow as observations of vector magnetic fields become increasingly sophisticated *Faults and Subsurface Fluid Flow in the Shallow Crust* William C.

Haneberg, 1999-01-26 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 113 This volume offers a sample of the diversity of research on faults and fluid flow in the late 1990s It describes detailed surface and subsurface characterization of fault zone structure and diagenesis with implications for hydrology and petroleum geology the role of faults in geothermal systems laboratory studies of rock mechanics permeability and geochemistry of faults and fault rocks and mathematical modeling of fluid flow through faulted and fractured rocks The most striking and appealing feature of the volume as well as the general research topic of faults and subsurface fluid flow is its interdisciplinary nature The authors are drawn from the fields of structural geology engineering geology geohydrology and hydrogeology sedimentology petroleum geology geothermal geology rock mechanics and geochemistry Likewise the emphasis on faults rather than simple open fractures raises issues not addressed in much of the literature on flow through fractured rocks Although faults are a type of fracture and semantics can confuse the issue faults are generally more complicated than the simple fractures that are the focus of most work in fractured rock hydrology Most notably faults can have very large displacements up to many kilometers and develop complicated tectonic fabrics gouge zones and juxtaposition of rocks or sediments of different types **Subject Guide to Books in Print**, 1991 [Atmospheric Science Across the Stratopause](#)

David E. Siskind, Stephen D. Eckermann, Michael E. Summers, 2000-01-10 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 123 In recent years two separate geophysical research cultures have

developed in the United States to study the atmosphere one of space scientists who focus on the mesosphere thermosphere and ionosphere and the other of atmospheric scientists who focus on the troposphere and stratosphere The boundary between these two research domains roughly coincides with the stratopause 50 km While the division of the atmosphere into layers and boundaries serves as a useful way to characterize the various chemical and dynamical processes that distinguish these layers these boundaries are not impermeable To understand such critical issues as global change geophysicists must study the atmosphere as an integrated system The purpose of this monograph is to highlight those studies that consider the coupling of these two regions and thus bring together two scientific specialties atmospheric science and space science that are often considered separately

**Rendiconto dell'Accademia delle scienze fisiche e matematiche. Serie IV** Società nazionale scienze lettere arti di Napoli, 2008

**Geospace Mass and Energy Flow** James L. Horwitz, Dennis L. Gallagher, William K. Peterson, 1998-02-04 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 104 The International Solar Terrestrial Program ISTP was conceived by the space agencies of numerous countries as a coordinated effort to determine the global flow of mass energy and momentum through the solar terrestrial system The physical region of interest extends from the Sun through the solar wind to the terrestrial magnetosphere down to the ionosphere with the principal focus on the magnetosphere and its coupling with the solar wind and ionosphere With the launch of NASA's POLAR spacecraft in February 1996 the major elements of the ISTP program were in place This volume is one of the very first compendiums of both new observations and new modeling results either directly or indirectly deriving from this major ISTP undertaking

The History and Dynamics of Global Plate Motions Robert D. van der Hilst, 2000-01-10 Here is the state of the art on the dynamics of plate motions and the questions about it that remain Earth scientists and students will find it a rich resource for new interpretations and research

*Flow and Transport Through Unsaturated Fractured Rock* Daniel D. Evans, Thomas J. Nicholson, Todd C. Rasmussen, 2001-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 42 This monograph is an update and revision of the first edition Geophysical Monograph 42 on ground water flow and transport through unsaturated fractured rock published by AGU in 1987 The first edition evolved from a special symposium held during the American Geophysical Union fall meetings in San Francisco in December 1986 Invited and contributed papers at that AGU session as well as panel presentations focused on conceptualizing measuring and modeling flow and transport through unsaturated fractured rock As noted in the preface to the first edition the expanded interest in the topic water flow and contaminant transport through unsaturated fractured rock was initiated when the U S Geological Survey proposed that deep unsaturated zones in arid regions be considered in the site selection for the first high level commercially generated radioactive waste repository Much of the research reported in that first edition was motivated by the U S Department of Energy's program to investigate Yucca Mountain at the Nevada Test Site as a possible geologic repository for commercially generated high level radioactive waste

As noted in the overview paper of the first edition characterization methods and modeling are in their developmental stage with the greatest lack of knowledge being the interaction between fracture and matrix flow and transport properties Although the first edition of this monograph reflected the state of the science laboratory and field experimental programs were novel and limited and in general followed from the principles and methods developed in the soil science community

**Double-diffusive Convection at High and Low Prandtl Numbers** Adrienne L. Traxler,2011 **Radio Astronomy at Long Wavelengths** Robert G. Stone,2000-01-10 The first reports back from what has until now been an unexplored region of the radiomagnetic spectrum from 30 kHz and a wavelength of ten kilometers to about 30 MHz and a wavelength of ten meters three orders of frequency magnitude just below the standard radion astronomy region The 36 tutorials and reviews from an October conference in Paris France consider the generation of radio waves propagation and scattering long wavelength radio emission from the solar system and from galactic and extragalactic sources and radio telescopes for long wavelength observations and sounding They include a few color plates but are not indexed Annotation copyrighted by Book News Inc Portland OR *Properties of Earth and Planetary Materials at High Pressure and Temperature* Murli H. Manghnani,Takehiko Yagi,1998-02-04 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 101 High pressure tempertatur research is vital to understanding the formation and evolution of the Earth and planetary interiors Recent advances in research techniques have enabled mineral physicists to simulate conditions prevailing throughout the Earth s interior This volume presents new laboratory data as well as geophysical and geochemical field observations and their implications describing the nature and composition of the Earth and planetary interiors These advances in state of the art high pressure temperature research and applications will interest mineral physicists petrologists geochemists and planetologists

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Double Diffusive Convection Geophysical Monograph Ser**

In a global inundated with displays and the cacophony of instant communication, the profound power and mental resonance of verbal art frequently disappear into obscurity, eclipsed by the constant onslaught of noise and distractions. Yet, set within the musical pages of **Double Diffusive Convection Geophysical Monograph Ser**, a interesting perform of literary brilliance that pulses with raw feelings, lies an unique trip waiting to be embarked upon. Written with a virtuoso wordsmith, that magical opus instructions viewers on an emotional odyssey, softly exposing the latent possible and profound impact stuck within the complicated internet of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is key themes, dissect its interesting publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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