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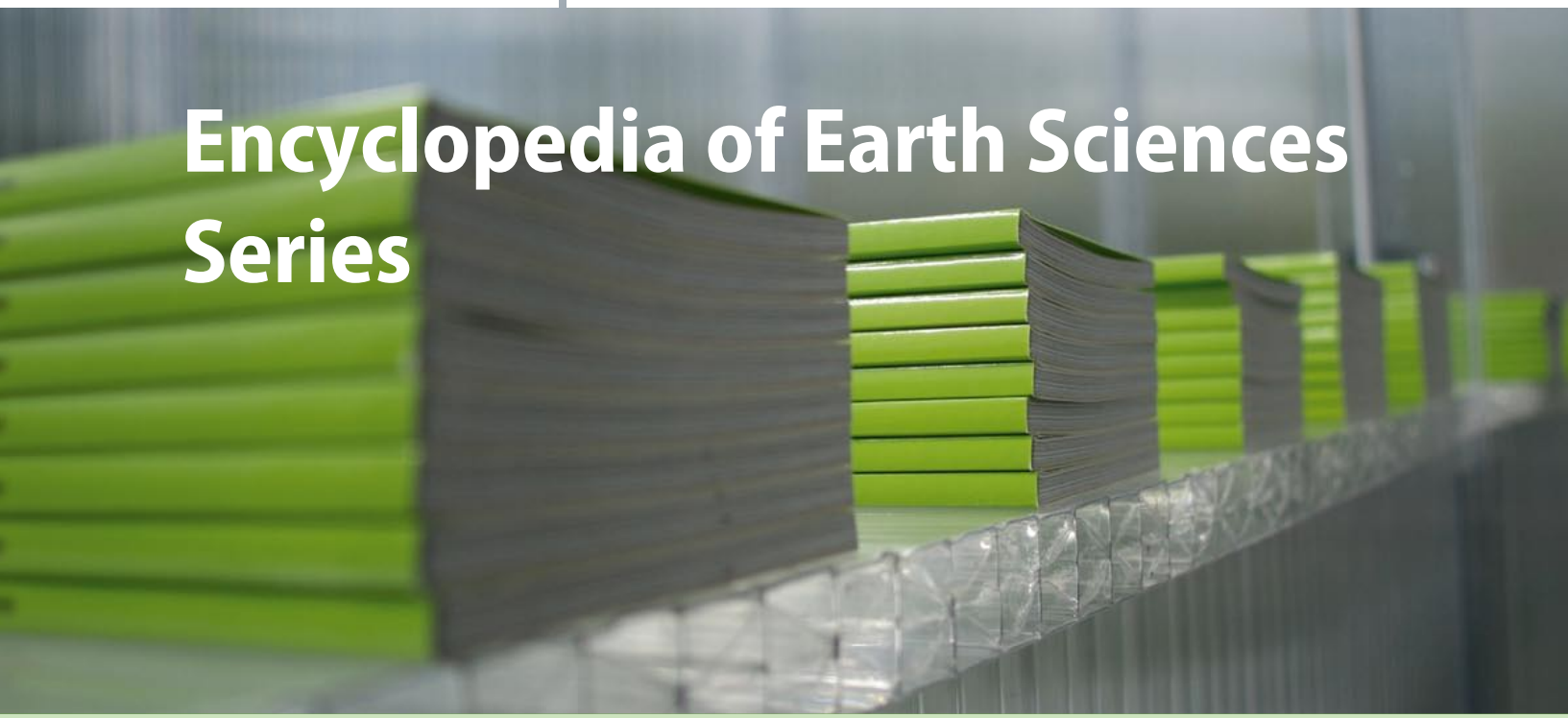

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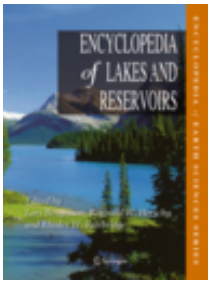

L. Bengtsson, Lund University, Lund, Sweden; R.W. Herschy, CNS Scientific & Engineering, Reading, United Kingdom; R.W. Fairbridge (Eds.)

Encyclopedia of Lakes and Reservoirs

The world's growing population faces the challenge of meeting ever-larger demands for fresh water, not only for drinking but also for agriculture, industry and recreation. Already some one billion people are at risk from over-use, water withdrawals and pollution of these water bodies So scientific knowledge of the lakes and reservoirs, which hold about 90% of the world's surface fresh water, is increasingly critical to meeting the multiplicity of needs.The Encyclopedia of Lakes and Reservoirs offers a comprehensive and authoritative review of physical, chemical and ecological characteristics of lakes and reservoirs, as well as describing their uses and environmental conditions and[...]

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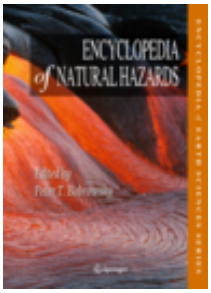

P.T. Bobrowsky, Simon Fraser University, Burnaby, Canada (Ed.)

Encyclopedia of Natural Hazards

Few subjects have caught the attention of the entire world as much as those dealing with natural hazards. The first decade of this new millennium provides a litany of tragic examples of various hazards that turned into disasters affecting millions of individuals around the globe. The human losses (some 225,000 people) associated with the 2004 Indian Ocean earthquake and tsunami, the economic costs (approximately 200 billion USD) of the 2011 Tohoku Japan earthquake, tsunami and reactor event, and the collective social impacts of human tragedies experienced during Hurricane Katrina in 2005 all provide repetitive reminders that we humans are temporary guests occupying a very active and[...]

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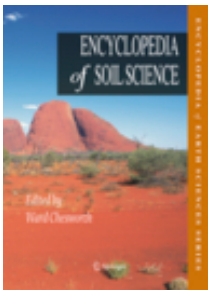

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Soils long have been taken for granted being so commonplace and lacking often striking features. However, soil is one of the most complex media on Earth, vital for the biogeosphere and human civilization. With increased usage of soil for world food production, building materials, waste repositories, etc awareness has grown for the need of better global understanding of soil and its processes. The Encyclopedia of Soil Science provides a comprehensive, alphabetical treatment of basic soil science in a single volume. It constitutes a wide ranging and authoritative collection of about 160 academic articles covering the salient aspects of soil physics, chemistry, biology, fertility,[...]

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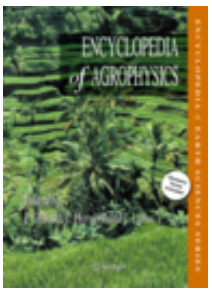

J. Gliński, PAN Lublin, Lublin, Poland; J. Horabik, PAN Lublin, Lublin, Poland; J. Lipiec, PAN Lublin, Lublin, Poland (Eds.)

Encyclopedia of Agrophysics

This Encyclopedia of Agrophysics will provide up-to-date information on the physical properties and processes affecting the quality of the environment and plant production. It will be a "first-up" volume which will nicely complement the recently published Encyclopedia of Soil Science, (November 2007) which was published in the same series. In a single authoritative volume a collection of about 250 informative articles and ca 400 glossary terms covering all aspects of agrophysics will be presented. The authors will be renowned specialists in various aspects in agrophysics from a wide variety of countries. Agrophysics is important both for research and practical use not only in[...]

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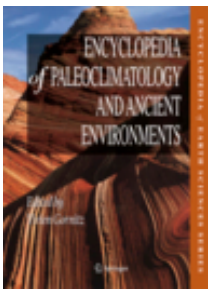

V. Gornitz, NASA, New York, USA (Ed.)

Encyclopedia of Paleoclimatology and Ancient Environments

Earned Outstanding Academic Title distinction for Earth Sciences titles 2010 from the library maga-

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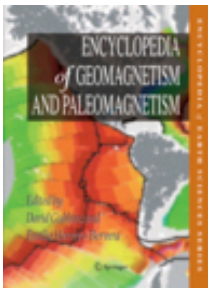

D. Gubbins, E. Herrero-Bervera, University of Hawaii, Honolulu, USA (Eds.)

Encyclopedia of Geomagnetism and Paleomagnetism

Understanding the process underlying the origin of Earth magnetic field is one of the greatest challenges left to classical Physics. Geomagnetism, being the oldest Earth science, studies the Earth's magnetic field in its broadest sense. The magnetic record left in rocks is studied in Paleomagnetism. Both fields have applications, pure and applied: in navigation, in the search for minerals and hydrocarbons, in dating rock sequences, and in unraveling past geologic movements such as plate motions they have contributed to a better understanding of the Earth. Consisting of more than 300 articles written by ca 200 leading experts, this authoritative reference encompasses the entire[...]

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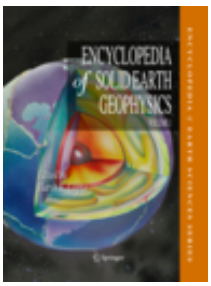

H.K. Gupta, National Disaster Management Authority, New Delhi, India (Ed.)

Encyclopedia of Solid Earth Geophysics

The past few decades have witnessed the growth of the Earth Sciences in the pursuit of knowledge and understanding of the planet that we live on. This development addresses the challenging endeavor to enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come. Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework, which other allied disciplines utilize for more specific investigations. The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company.[...]

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R.W. Herschy, CNS Scientific & Engineering, Reading, United Kingdom; R.W. Fairbridge (Eds.)

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The fresh water supplies of the Earth are finite and as the world's population continues to grow humanity's thirst for this water seems unquenchable. Intense pressure is being exerted upon freshwater resources and a lack of adequate clean water is seen as one of the most serious global problems for the 21st century. Indeed it has been said that the next war will be fought over water, not oil. Human health and the health of supporting ecosystems increasingly depends upon our ability to find, control, manage and understand water. In a single volume, The Encyclopedia of Hydrology and Water Resources provides the reader with a comprehensive overview and understanding of the[...]

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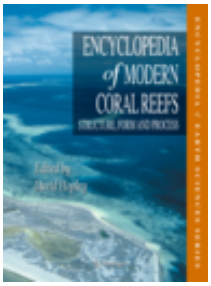

D. Hopley, James Cook University, Townsville, Australia (Ed.)

Encyclopedia of Modern Coral Reefs

Structure, Form and Process

Coral reefs are the largest landforms built by plants and animals. Their study therefore incorporates a wide range of disciplines. This encyclopedia approaches coral reefs from an earth science perspective, concentrating especially on modern reefs. Currently coral reefs are under high stress, most prominently from climate change with changes to water temperature, sea level and ocean acidification particularly damaging. Modern reefs have evolved through the massive environmental changes of the Quaternary with long periods of exposure during glacially lowered sea level periods and short periods of interglacial growth. The entries in this encyclopedia condense the large amount of work[...]

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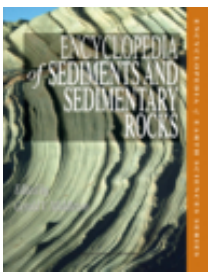

V. Middleton (Ed.)

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J.E. Oliver (Ed.)

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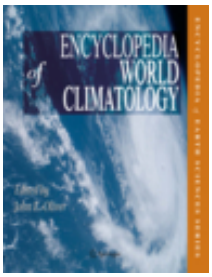

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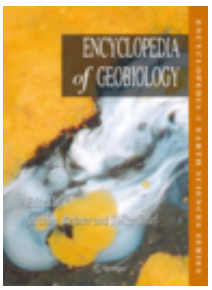

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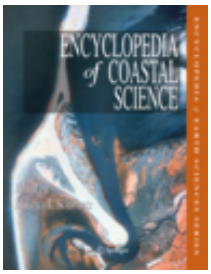

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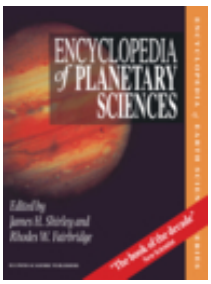

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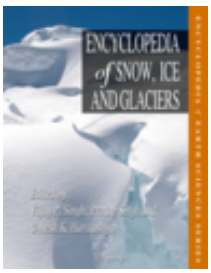

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