

## Encyclopedia Of Hydrological Sciences

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### Donald J. Leopold

Ekwurzel, B. 2005. Role and Importance of Paleohydrology in Study of Climate Change and Variability. Encyclopedia of Hydrological Sciences. M. G. Anderson (Editor-in-Chief), J. J. McDonnell (Advisory ...

### Brenda Ekwurzel

Armitage, A.M. 1989. Herbaceous Perennial Plants. A Treatise on Their Identification, Culture, and Garden Attributes. Varsity Press, Inc., Athens, Georgia, 646 p ...

### Bibliography of Native Trees

Synoptic and Dynamic Climatology, Paleoclimatology, Hydroclimatology, Environmental Change, Water Resources, Drought and Geo-Visualization  
Climate, water and the west are three topics that drive my ...

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Donovan, Amy and Oppenheimer, Clive 2015. At the Mercy of the Mountain? Field Stations and the Culture of Volcanology. Environment and Planning A: Economy and Space, Vol. 47, Issue. 1, p. 156. Marten, ...

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In Scott E. Henke and Paul R. Krausman (Ed.), Becoming a Wildlife Professional. Baltimore, MD: Johns Hopkins University Press. Hernandez, F., Silvy,

N. J., Stewart, K ...

## **Kelley Stewart**

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Professor Gareth Phoenix is APS liaison for the Environmental Science degree, ad-hoc member of the Teaching Committee and co-ordinates APS118 tutorials for Environmental Science students. My own ...

## **Professor Gareth Phoenix**

Principle Investigator. Awarded Spring 2019. Proposal to National Science Foundation IRES Track III Collaborative Research, "Coupling Participatory and Hydrological Research for Adapting to Extreme ...

## **Kari B. Henquinet**

Ph.D., Geography, University of Oregon, 2003 Dissertation Title: Mechanistic Controls of North American Climate Variability M.A., Geography, University of Oregon ...

## **Dr. J.J. Shinker**

<sup>1</sup> Reviewing his topoi — gardens, domestic animals, domestic servants, zoos, dwarves, castrati, comedians, bonsai, fountains — recalls the critters frivolously categorized in Borges's Chinese ...

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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 diverse field of hydrology. The intimate inclusion of material on water resources emphasizes the practical applications of this field, applications which are indispensable in any modern approach to the subject. This volume is a vital reference for all hydrologists, hydrogeologists and water engineers worldwide, whether they are concerned with the exploitation of new sources of water, the protection and management of existing reserves, or the science of surface water and groundwater flow. 114 eminent scientists from 17 countries worldwide have contributed to this authoritative volume. Superbly illustrated throughout, it includes almost 300 entries on a range of key topics, including arid and semi-arid zones, climates and climate change, floods and droughts, desertification, entropy, flow measurement, groundwater, hydrological cycle, hydrological models, infiltration, karst hydrology, paleohydrology, precipitation, remote sensing, river pollution prevention, rivers, lakes and seas, satellite hydrology, soil erosion, water treatment, water use, weather radar, and world water balance.

Just do an Internet search. It's on the Internet These phrases have quickly become a part of the vernacular. The quintessential book of data relating to water, *The Water Encyclopedia: Hydrologic Data and Internet Resources*, Third Edition arose from the premise that most of the information provided within this publication could be easily

The earth's cryosphere, which includes snow, glaciers, ice caps, ice sheets, ice shelves, sea ice, river and lake ice, and permafrost, contains about 75% of the earth's fresh water. It exists at almost all latitudes, from the tropics to the poles, and plays a vital role in controlling the global climate system. It also provides direct visible evidence of the effect of climate change, and, therefore, requires proper understanding of its complex dynamics. This encyclopedia mainly focuses on the various aspects of snow, ice and glaciers, but also covers other cryospheric branches, and provides up-to-date information and basic concepts on relevant topics. It includes alphabetically arranged and professionally written, comprehensive and authoritative academic articles by well-known international experts in individual fields. The encyclopedia contains a broad spectrum of topics, ranging from the atmospheric processes responsible for snow formation; transformation of snow to ice and changes in their properties; classification of ice and glaciers and their worldwide distribution; glaciation and ice ages; glacier dynamics; glacier surface and subsurface characteristics; geomorphic processes and landscape formation; hydrology and sedimentary systems; permafrost degradation; hazards caused by cryospheric changes; and trends of glacier retreat on the global scale along with the impact of climate change. This book can serve as a source of reference at the undergraduate and graduate level and help to better understand snow, ice and glaciers. It will also be an indispensable tool containing specialized literature for geologists, geographers, climatologists, hydrologists, and water resources engineers; as well as for those who are engaged in the practice of agricultural and civil engineering, earth sciences, environmental sciences and engineering, ecosystem management, and other relevant subjects.

Today, Information and Communication Technologies (ICT) have a pervasive presence in almost every aspect of the management of water. There is no question that the collection of big data from sensing and the insights gained by smart analytics can bring massive benefits. This book focuses on new perspectives for the monitoring, assessment and control of water systems, based on tools and concepts originating from the ICT sector. It presents a portrait of up-to-date sensing techniques for water, and introduces concepts and implications with the analysis of the acquired data. Particular attention is given to the advancements in developing novel devices and data processing approaches. The chapters guide the reader through multiple disciplinary contexts, without aiming to be exhaustive, but with the effort to present relevant topics in such a highly multi-disciplinary framework. This book will be of interest to advanced students, researchers and stakeholders at various levels.

Lakes and reservoirs hold about 90% of the world's surface fresh water, but overuse, water withdrawal and pollution of these bodies puts some one billion people at risk. *The Encyclopedia of Lakes and Reservoirs* reviews the physical, chemical and ecological characteristics of lakes and reservoirs, and describes their uses and environmental state trends in different parts of the world. Superbly illustrated throughout, it includes some 200 entries in a range of topics, including acidification, artificialisation, canals, climate change effects, dams, dew ponds, drainage, eutrofication, evaporation, fisheries, hydro-electric power, nutrients, organic pollution, paleolimnology, reservoir capacities and depths, sedimentation, water resources and more.

Water quality and management are of great significance globally, as the demand for clean, potable water far exceeds the availability. Water science research brings together the natural and applied sciences, engineering, chemistry, law and policy, and economics, and the Treatise on Water Science seeks to unite these areas through contributions from a global team of author-experts. The 4-volume set examines topics in depth, with an emphasis on innovative research and technologies for those working in applied areas. Published in partnership with and endorsed by the International Water Association (IWA), demonstrating the authority of the content Editor-in-Chief Peter Wilderer, a Stockholm Water Prize recipient, has assembled a world-class team of volume editors and contributing authors. Topics related to water resource management, water quality and supply, and handling of wastewater are treated in depth.

This book presents the main hydrological methods and techniques used in the design and operation of hydraulic projects and the management of water resources and associated natural risks. It covers the key topics of water resources engineering, from the estimation of runoff volumes and unit hydrographs to the routing of flows along a river and throu

This book is dedicated to Prof. Peter Young on his 70th birthday. Professor Young has been a pioneer in systems and control, and over the past 45 years he has influenced many developments in this field. This volume comprises a collection of contributions by leading experts in system identification, time-series analysis, environmetric modelling and control system design – modern research in topics that reflect important areas of interest in Professor Young's research career. Recent theoretical developments in and relevant applications of these areas are explored treating the various subjects broadly and in depth. The authoritative and up-to-date research presented here will be of interest to academic researcher in control and disciplines related to environmental research, particularly those to with water systems. The tutorial style in which many of the contributions are composed also makes the book suitable as a source of study material for graduate students in those areas.

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