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# Hidrologia Subterranea Custodio Lamas

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Coastal Fluxes in the Anthropocene  
Shallow Geothermal Energy  
A Handbook for Geophysicists, Geologists, and Engineers  
A Technical Approach to Hydrogeology, Contaminant Transport and Groundwater Remediation  
Groundwater and saline intrusion  
Contaminant Hydrogeology  
Geochemical Techniques for Identifying Sources of Ground-Water Salinization  
Physical Infrastructure Development  
Theory and Application  
Quantity, Quality and Climate Variability  
Water-supply Paper  
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Hydrology for Engineers  
Alternative Irrigation  
The Water Encyclopedia, Second Edition  
Volcanic Ash Soils  
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Making Water Everybody's Business

*Hidrología Subterránea Custodio Lamas*

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## AUBREY HOWE

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*Coastal Fluxes in the Anthropocene* National Academies Press

*Geochemical Techniques for Identifying Sources of Ground-Water Salinization* offers a comprehensive look at the threat to the United States' freshwater resources due to salinization and outlines techniques that can be used to study the problem. The book reviews the seven major salt-water sources that commonly mix and deteriorate our fresh ground water (natural saline ground water, halite solution, sea-water intrusion, oil- and gas-field brines, agriculture effluents, saline seep, and road salting). Other topics covered are the characteristics of saltwater sources, geochemical parameters, and basic graphical and statistical methods that are frequently used in saltwater studies. The book also provides geographical charts showing the distribution of the major salt-water sources, illustrating which ones are potential sources in any given area in the United States.

*Geochemical Techniques for Identifying Sources of Ground-Water Salinization* describes the individual geochemical parameters used in identifying salinization and the information on how and where to obtain them. This is an informative book for anyone interested in the present and future quality of our fresh-water supply. Features

*Shallow Geothermal Energy* Harvard University Press

This book synthesizes knowledge of coastal and riverine material fluxes, biogeochemical processes and indications of change, both natural, and increasingly human-initiated. Here, the authors assess coastal flux in the past and present, and in future under the International Geosphere-Biosphere Programme (IGBP), the International Human Dimensions Programme on Global Environmental Change (IHDP) and the LOICZ II (Land-Ocean Interactions in the Coastal Zone) Project.

*A Handbook for Geophysicists, Geologists, and Engineers* United Nations Educational

This updated and expanded edition provides a thorough understanding of the measurable properties of groundwater systems and the knowledge to apply hydrochemical, geological, isotopic, and dating approaches to their work. This volume includes question and answer discussions for key concepts presented in the text and the basic hydrological, geological, and physical parameters to be observed and measured. *Chemical and Isotopic Groundwater Hydrology, Third Edition* covers the chemical tools of groundwater hydrology, the isotopic composition of water and groundwater dating by tritium, carbon-14, Cl-36, and He-4, as well as the application of fossil groundwater as a paleoclimatic indicator.

### **A Technical Approach to Hydrogeology, Contaminant Transport and Groundwater Remediation** IGME

This book describes the ecosystem of the Andean watersheds, covering the Californian valley, tropical Andes, and southern Andes. Case studies of the new methods and techniques used for hydrological research in the Andes are provided, and sustainability issues pertaining to Andean water resources are discussed in the context of climate change, social and economic issues, and

public policy. Furthermore, the impact of economic development on the Andean ecosystem, specifically the effect on the water cycle and the water-energy-food nexus, are examined.

*Groundwater and saline intrusion* International Inst for Land Reclamation &

Scientific understanding of fluid flow in rock fractures--a process underlying contemporary earth science problems from the search for petroleum to the controversy over nuclear waste storage--has grown significantly in the past 20 years. This volume presents a comprehensive report on the state of the field, with an interdisciplinary viewpoint, case studies of fracture sites, illustrations, conclusions, and research recommendations. The book addresses these questions: How can fractures that are significant hydraulic conductors be identified, located, and characterized? How do flow and transport occur in fracture systems? How can changes in fracture systems be predicted and controlled? Among other topics, the committee provides a geomechanical understanding of fracture formation, reviews methods for detecting subsurface fractures, and looks at the use of hydraulic and tracer tests to investigate fluid flow. The volume examines the state of conceptual and mathematical modeling, and it provides a useful framework for understanding the complexity of fracture changes that occur during fluid pumping and other engineering practices. With a practical and multidisciplinary outlook, this volume will be welcomed by geologists, petroleum geologists, geoengineers, geophysicists, hydrologists, researchers, educators and students in these fields, and public officials involved in geological projects.

### **Contaminant Hydrogeology** CRC Press

This book addresses the key challenges of balancing economic growth, poverty alleviation, and environmental protection in the development of major physical infrastructure, ranging from transport to energy.

*Geochemical Techniques for Identifying Sources of Ground-Water Salinization* Walter de Gruyter GmbH & Co KG

This text is written by a number of authors from different countries and disciplines, affording the reader an invaluable and unbiased perspective on the subject of intensive groundwater development. Based on information gathered from the experience of many countries over the last decades, the text aims to present a clear discussion on the conventional hydrogeological aspects of intensive groundwater use, along with the ecological, legal, institutional, economic and social challenges. Divided into two main sections, the first group of authors put forward the positive and negative aspects of intensive groundwater use, whilst a second group provide an overview of the situation specific countries face as a consequence of this phenomenon. Fully revised and up-to-date, *Groundwater Intensive Use* makes a significant number of discoveries in a subject area that is topical in today's climate.

*Physical Infrastructure Development* Hidrología subterránea Groundwater Problems in Coastal Areas A Contribution to the International Hydrological Programme

This book is the outcome of more than a decade of research and technical development activities at Spain's Geological Survey (IGME) concerning shallow geothermal energy, which were pursued in

collaboration with other public bodies and European entities. It presents a compilation of papers on the theoretical foundations of, and practical aspects needed to understand the thermal regime of the topmost subsoil, up to 400 m deep, and the exceptional properties that this underground environment offers, which make it the ideal thermal reservoir for heating, ventilation, and air conditioning (HVAC). In the book's first section, the basic theory of thermodynamics as applied to shallow geothermal energy, heat transfer and fluid mechanics in the geological porous medium is developed. The nature of the subsoil's thermal regime in general and in the urban environment in particular is described. The second section introduces readers to the fundamental aspects of thermal installations equipped with geothermal heat pumps, describes the types of geothermal exchangers most commonly used, and reviews the techniques used to obtain the thermal parameters of the terrain. It also discusses the potential environmental impacts of shallow geothermal activity and corresponding management strategies, as well as the legal aspects of its regulation for the governance of shallow geothermal resources in the EU in general and Spain in particular. In closing, the book highlights examples of the methodologies' applications, developed by IGME in the city of Zaragoza and the Canary Islands. The theoretical foundations, systematics and concrete applications make the book a valuable reference source for hydrogeologists, engineers and specialized technicians alike.

*Theory and Application* CRC Press

An examination of both theoretical and practical approaches to the geochemistry of natural waters with a more tightly focused emphasis on fresh-water environments. The third edition focuses more on environmental issues than the previous edition, reflecting the importance on environmental geochemistry as a result of increased environmental awareness and regulatory requirements. Prepares readers to interpret the probable cause of a particular water composition and to predict the probable water chemistry in those situations where data do not exist.

*Quantity, Quality and Climate Variability* IGME

Hidrología subterránea Groundwater Problems in Coastal Areas A Contribution to the International Hydrological Programme United Nations Educational Inquinamento delle acque sotterranee HOEPLI EDITORE Libros en venta en Hispanoamérica y España Host Bibliographic Record for Bound with Item Barcode 30112044536966 and Others Geologia applicata all'ambiente Libros españoles, ISBN. Intensive Use of Groundwater: Challenges and Opportunities CRC Press

*Water-supply Paper* Elsevier

Always considered a classic renewable resource, after a hundred thousand years of farming and industry, rivers in many parts of the world are running dry and the groundwater is over pumped. In addition, the rate at which water sources are becoming contaminated with waste from humans, industry, and agriculture is truly alarming. Do these factors add up to a water crisis that merits drastic, large-scale action? Not necessarily say the editors of *Water Crisis: Myth or Reality*. They challenge this pessimism, concluding that while there are serious global water issues to be considered, the concept of a global water crisis is largely overstated. The book examines the issues and explores which conditions are permanent and unchangeable and which are remediable and changeable. The chapters explore when and where severe regional and local water problems occur and make suggestions about how they may be solved in a deliberate, non-crisis manner. The book

covers recent breakthroughs in desalination technologies, the eco-sanitation revolution, international trade in agricultural products, methods of governance and negotiation in water allocation, and pricing and devolution of property rights and the roles they play in solving water issues. The editors, along with a panel of world-renowned experts, suggest that water issues can be solved over the next few decades using new technologies and processes.

*Geological Survey Water-supply Paper* HOEPLI EDITORE

Groundwater resources naturally contain high levels of arsenic in many parts of the world. Over the last two decades, the As-containing groundwater in South-East Asia has received much attention, but the situation is just as crucial in Latin America, where the number of studies is still relatively low, and the extent and severity of As-exposure in the populations has yet to be fully evaluated. This book aims to promote knowledge of the occurrence and genesis of As-rich groundwater in Latin America. It deals with constraints on the mobility of As in groundwater, As-uptake from soil and water by plants, As-propagation through the food chain, human health impacts, and As-removal technologies. Case studies are presented from Argentina, Bolivia, Chile, Ecuador, El Salvador, Mexico, Nicaragua and Peru, amongst others, and are viewed against the background of experience from other world regions. The book is a state-of-art overview of arsenic research in Latin America. It aims to create interest within the Latin American countries affected by the presence of arseniferous aquifers and to increase awareness among administrators, policy makers and company executives. It will also serve to inform the international scientific community, and improve international cooperation on arsenic in groundwater.

*Hydrology for Engineers* CRC Press

The Negev, first published over a decade ago, told the story of some twenty years of study of southern Israel's desert. It synthesized the findings of botanists, geologists, soil scientists, agronomists, archaeologists, historians, and engineers and told how the applications of their work produced an agricultural surplus in this forbiddingly dry, hot region. Now Michael Evenari has amplified the book with data from another decade of work. He describes the efforts at a new farm at Wadi Mashash, extends the weather data another ten years, presents further work on the adaptations of plants and animals to desert conditions, and takes a much deeper look at the historical precedents for the method of runoff agriculture, which has made the desert bloom.

*Alternative Irrigation* Routledge

Tremendous progress has been made in the field of remediation technologies since the second edition of *Contaminant Hydrogeology* was published two decades ago, and its content is more important than ever. Recognizing the extensive advancement and research taking place around the world, the authors have embraced and worked from a larger global perspective. Boving and Kremer incorporate environmental innovation in studying and treating groundwater/soil contamination and the transport of those contaminants while building on Fetter's original foundational work. Thoroughly updated, expanded, and reorganized, the new edition presents a wealth of new material, including new discussions of emerging and potential contaminant sources and their characteristics like deep well injection, fracking fluids, and in situ leach mining. New sections cover BET and Polanyi adsorption potential theory, vapor transport theory, the introduction of the Capillary and Bond Numbers, the partitioning interwell tracer testing technique for investigating NAPL sites, aerial

photographic interpretation, geophysics, immunological surveys, high resolution vertical sampling, flexible liner systems, groundwater tracers, and much more. Contaminant Hydrogeology is intended as a textbook in upper level courses in mass transport and contaminant hydrogeology, and remains a valuable resource for professionals in both the public and private sectors.

The Water Encyclopedia, Second Edition Springer

Groundwater and Surface Water Pollution contains almost all the technical know-how required to clean up our water supply. It provides a survey of up-to-date technologies for remediation, as well as a step-by-step guide to pollution assessment for both ground and surface waters. The book defines groundwater, aquifers and surface water and discusses

*Volcanic Ash Soils* Routledge

An introduction to runoff agriculture - a form of agricultural irrigation - this text describes how the use of surface and subsurface water, often overlooked and wasted, enables both small farmers and commercial agriculturists to improve yields and the security of harvest, even in harsh and remote environments. The text introduces the techniques and strategies, as well as the challenges and the potential of the crucial approach, which can contribute so much to reducing land degradation and improving conservation and sustainability.

*The Challenge of a Desert* John Wiley & Sons Incorporated

Volcanic eruptions are generally viewed as agents of destruction, yet they provide the parent materials from which some of the most productive soils in the world are formed. The high productivity results from a combination of unique physical, chemical and mineralogical properties. The importance and uniqueness of volcanic ash soils are exemplified by the recent establishment of the Andisol soil order in Soil Taxonomy. This book provides the first comprehensive synthesis of all aspects of volcanic ash soils in a single volume. It contains in-depth coverage of important topics including terminology, morphology, genesis, classification, mineralogy, chemistry, physical properties, productivity and utilization. A wealth of data (37 tables, 81 figures, and Appendix) mainly from the Tohoku University Andisol Data Base is used to illustrate major concepts. Twelve color plates provide a valuable visual-aid and complement the text description of the world-wide distribution for volcanic ash soils. This volume will serve as a valuable reference for soil scientists, plant scientists, ecologists and geochemists interested in biogeochemical processes occurring in soils derived from volcanic ejecta.

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A million facts and figures, valuable for many uses-all in one volume. Years of professional scientific work, selection, and organization went into this encyclopedia. ALL NEW Every Fact, every figure, every table, chart, diagram, and figure is all-new since the first edition. Double the Content-This new edition gives you twice the material and twice the data of the original book. ALL THE FACTS THAT COUNT Ground water contamination Drinking water Floods Waterborne diseases Global warming Climate change Irrigation Water agencies and organizations Precipitation Oceans and seas Rivers, lakes and waterfalls Water use/reuse Environmental This is the one basic reference on water that all of us need for... ENVIRONMENTAL PROFESSIONALS AND OTHER SCIENTISTS AND ENGINEERS

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Opportunities and Threats to Development International Assn of Hydrological Sciences

Well Logging for Physical Properties A Handbook for Geophysicists, Geologists and Engineers Second Edition Joseph R Hearst Consultant Philip H Nelson United States Geological Survey Frederick L Paillett United States Geological Survey Standard well logging technology was developed primarily to use measurements in liquid-filled boreholes to quantify the petroleum content in liquid-saturated sedimentary formations. By taking a fundamental approach to tool physics, this book enables readers to move beyond the standard situations and assumptions to use the technology under other conditions, such as air-filled boreholes and partially-saturated formations, and for other applications, such as the estimation of lithology type, shale fraction, mineral content, coal quality, total organic carbon, bedding dip and strike, and the movement of fluids in a borehole. This new edition explores the physical principles behind logging methods, including modern methods such as nuclear magnetic resonance, full-wave acoustic methods, and logging-while-drilling. No other book explains all of these new techniques. However, because log analysts must deal with logs run long ago, descriptions of the older technology are also retained. This comprehensive resource will help the log user review the results from the logging service companies, which run the logs and present the results. It will enable the user to understand the technology, to ask the right questions, and then to use the answers. Throughout the book, numerical values for the physical properties of fluids and minerals help the readers convert log values to actual formation properties. The explanations of technology, practical examples, and numerical data not only make this book an invaluable reference but also permit readers to improve and correct measurements made in the field.

*Processing and Synthesis of Hydrogeological Data* Springer Science & Business Media

More than a billion people cannot get safe drinking water; half the world's population does not have adequate sanitation; within a generation over three billion will be suffering from water stress. This text analyzes the issues in this crisis of management and shows how water can be used effectively and productively. The key to sustainable water resources is an integrated approach. The authors assert that careful planning and concerted action can make the fundamental changes needed and that the implications of not dealing with the crisis are immense. The book comes with a CD ROM containing background research and scenarios.

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