

1. Record Nr.	UNINA9910962336903321
Titolo	Aquifers : types, impacts, and conservation // Zoubeir Ouakili and Habib Chippo, editors
Pubbl/distr/stampa	New York, : Nova Science Publisher's, Inc., c2012
ISBN	1-61942-096-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (288 p.)
Collana	Environmental science, engineering and technology
Altri autori (Persone)	ChippoHabib OuakiliZoubeir
Disciplina	551.49
Soggetti	Aquifers - Research Aquifers Groundwater - Pollution
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p> ""AQUIFERS: TYPES, IMPACTSAND CONSERVATION""; ""ENVIRONMENTAL SCIENCE,ENGINEERING AND TECHNOLOGY""; ""WATER RESOURCE PLANNING,DEVELOPMENT AND MANAGEMENT""; ""LIBRARY OF CONGRESS CATALOGING-IN-PUBLICATION DATA""; ""CONTENTS""; ""PREFACE""; ""SUPPORTING REMEDIATION DECISIONMAKING: THE EFFECT OF THE AQUIFERHETEROGENEITY""; ""ABSTRACT""; ""INTRODUCTION""; ""THE CONTAMINATED HETEROGENEOUS AQUIFER ANDREMEDATION OPTIONS""; ""BASIC MODEL OF THE AQUIFER MADE OFPERMEABLE FRACTURED FORMATION""; ""THE EXPERIMENTAL SET-UP""; ""CARRYING OUT THE EXPERIMENTS""; ""EXPERIMENTS OF SERIES A"" </p> <p> ""GROUNDWATER RESOURCES AT RIO CLARO CITYAND NEIGHBORHOOD""""HYDROCHEMISTRY IN THREE AQUIFER SYSTEMSAT RIO CLARO CITY""; ""REGIONAL HYDROCHEMICAL RELATIONSHIPS""; ""CONCLUSION""; ""ACKNOWLEDGEMENTS""; ""REFERENCES""; ""AQUIFER SYSTEM CHARACTERIZATIONUSING INTEGRATED GEOPHYSICALMETHODS""; ""ABSTRACT""; ""1. INTRODUCTION AND OBJECTIVES""; ""2. GEOLOGICAL AND HYDROGEOLOGICAL SETTINGS""; ""3. GEOPHYSICAL SURVEYS""; ""4. RESULTS AND DISCUSSION""; ""4.1. Processing of Geophysical Logs Data""; ""4.1.1. Geophysical Cross Sections along the Profile C5"" </p>

4.1.2. Geophysical Cross Sections along the Profile C7
4.1.3. Geophysical Cross Sections along the Profile C9
4.2. Geoelectrical Resistivity Survey
4.2.1. Transverse Geoelectrical Cross-Section along the Profile III
4.2.2. Transverse Geoelectrical Cross-Section along the Profile IV
4.2.2. Longitudinal Geoelectrical Cross-Section along the Profile PIII
4.3. Thickness and Depth Contour Maps
4.3.1. Isopach Contour Maps of the Shallow Aquifer (R1)
4.3.2. Isopach Contour Maps of the Main Aquifer (R2)
4.3.3. Depth Contour Map of the Semi-Deep Aquifer
4.4. Structural Map
SUMMARY
REFERENCES
GROUNDWATER INTENSIVE USECASE STUDY: MANCHA ORIENTAL AQUIFER(SE SPAIN)
REFERENCES
STUDY OF VARIATION IN GROUNDWATER QUALITY IN ARID COASTAL AQUIFER IN SOUTH-EASTERN TUNISIA: USING MULTIVARIATE FACTOR ANALYSIS
ABSTRACT
I. INTRODUCTION
II. STUDY AREA
III. MATERIALS AND METHODS
IV. RESULTS AND DISCUSSION
Hydrochemical Characteristics
Isotopic Data
V. MULTIVARIATE STATISTICAL ANALYSIS
Correlation Analysis
Principal Component Analysis

Sommario/riassunto

Aquifers are typically saturated regions of the subsurface that produce an economically feasible quantity of water to a well or spring (e.g., sand and gravel or fractured bedrock often make good aquifer materials). Most land areas on Earth have some form of aquifer underlying them, sometimes at significant depths. In this book, the authors present current research in the study of the types, impacts and conservation of aquifers. Topics discussed include the effect of aquifer heterogeneity; hydrochemical features of groundwater from aquifer systems occurring in Sao Paulo, Brazil; aquifer system characterization using integrated geophysical methods; pollution risk of groundwater in a semi-arid region by wastewater rejections; a numerical study of aquifer thermal energy storage systems influenced by regional groundwater flow and fluid flow and contaminant propagation in fractured rock aquifers.
