

1. Record Nr.	UNINA9910383819403321
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Titolo	Water Resources and Integrated Management of the United Arab Emirates // by Abdulrahman S. Alsharhan, Zeinelabidin E. Rizk
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-31684-X
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (LXXXI, 850 p. 460 illus., 370 illus. in color.)
Collana	World Water Resources, , 2509-7385 ; ; 3
Disciplina	333.910095357
Soggetti	Hydrogeology Hydrology Water quality Water - Pollution Environmental management Climate Geographic information systems Hydrology/Water Resources Water Quality/Water Pollution Water Policy/Water Governance/Water Management Climate, general Geographical Information Systems/Cartography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	List of Figures -- List of Tables -- List of Photographs -- Preface -- Acknowledgments -- Chapter 1 Introduction -- Part I Geomorphology and Geology -- Chapter 2 Geomorphology -- Chapter 3 Geology -- Part II Climatic Conditions and Water Balance -- Chapter 4 Climatic Conditions -- Chapter 5 Water Balance -- Part III Conventional Water Resources -- Section A Surface Water Resources -- Chapter 6 Floods -- Chapter 7 Springs -- Chapter 8 Aflaj -- Section B Groundwater Resources -- Chapter 9 Limestone Aquifers -- Chapter 10 Ophiolite Aquifer -- Chapter 11 Gravel Aquifer -- Chapter 12 Sand Aquifer -- Chapter 13 Gravel and Sand Aquifer -- Part IV Non-Conventional Water

Resources -- Chapter 14 Desalination Water -- Chapter 15 Treated Sewage Water -- Part V Water Problems -- Chapter 16 General Water Problems -- Chapter 17 Drinking Water Problems -- Chapter 18 Pollution of the Quaternary Sand Aquifer -- Part VI Integrated Water Resources Management -- Chapter 19 Water Conservation -- Chapter 20 Water Harvesting -- Chapter 21 Advanced Agricultural Technologies -- Part VII Modern Techniques in Water Studies -- Chapter 22 Remote Sensing -- Chapter 23 Geographic Information Systems -- Chapter 24 Natural Isotopes -- Chapter 25 Modelling Techniques -- Chapter 26 Water Laws in the United Arab Emirates -- Chapter 27 General Summary -- References.

Sommario/riassunto

This book provides an inventory of water resources, describes water challenges, and suggests methodologies and technologies for integrated water resources management in the UAE. It also summarizes efforts of water conservation and management, and modern approaches for improvement of water resources management and decision-making related to this valuable resource. The authors are specialized in geology and hydrogeology and have been teaching and conducting scientific research on water resources in the UAE for the last three decades. This book represents the main reference on water resources in the UAE for academia, researchers, professionals, students and the general public. .
