

Free ebook Deserts and desert environments (2023)

Deserts and Desert Environments Geomorphology of Desert Environments Changing Desert Environments The Desert of Southeast Arabia Ecology of Desert Environments Water Management in Desert Environments Changing Desert Environments Changing Deserts Plant Nutrients in Desert Environments Human Impact on Desert Environment The Ecology of Desert Communities Desert Development Changing Deserts Deserts Deserts Wet and Dry Environments Desert sedimentary environments Desert Habitats Around the World Desert Regions Natural Environments of Arizona Discovering the Desert Design with the Desert The Warm Desert Environment Restoration and Rehabilitation of the Desert Environment Rodents in Desert Environments Desert Sedimentary Environments Negev, Land, Water, and Life in a Desert Environment The Warm Desert Environment Behaviour of Coastal Landslide Systems Techniques for Desert Reclamation Climate Change in Deserts Ecology of Desert Organisms Ecology of Desert Environments The Desert Experience in Israel Tourism and Deserts Deserts Plant Responses to Hyperarid Desert Environments Behavioural Adaptations of Desert Animals Adaptation to Desert Environment Origin and Evolution of Deserts

Deserts and Desert Environments 2009-01-28

taking a global perspective this book provides a concise overview of drylands including their physical biological temporal and human components examines the physical systems occurring in desert environments including climate hydrology past and present lakes weathering hillslopes geomorphic surfaces water as a geomorphic agent and aeolian processes offers an accessible introduction to the physical biological temporal and human components of drylands investigates the nature environmental requirements and essential geomorphic roles of plants and animals in this stressful biological environment highlights the impact of human population growth on climate desertification water resources and dust storm activity includes an examination of surface atmosphere interactions and the impact of ENSO events

Geomorphology of Desert Environments 2009-03-20

about one third of the earth's land surface experiences a desert climate and this area supports approximately 15% of the planet's population this percentage continues to grow and with this growth comes the need to acquire and apply an understanding of desert geomorphology such an understanding is vital in managing scarce and fragile resources and in mitigating natural hazards this authoritative reference book is comprehensive in its coverage of the geomorphology of desert environments and is arranged thematically it begins with an overview of global deserts proceeds through treatments of weathering hillslopes rivers piedmonts lake basins and aeolian surfaces and concludes with a discussion of the role of climatic change written by a team of international authors all of whom are active in the field the chapters cover the spectrum of desert geomorphology

Changing Desert Environments 2019-07-15

many people have heard of earth's largest deserts the Sahara in northern Africa the Gobi in East Central Asia and the Arabian in the Arabian Peninsula however some people may not know that these deserts weren't always so big desertification is the process by which natural or human causes turn previously productive land into desert areas this book explores the different causes of desertification and the ways even longtime desert lands can change fact boxes and sidebars provide readers with additional information relating to the main text

The Desert of Southeast Arabia 2005

no further information has been provided for this title

Ecology of Desert Environments 2012-08

by seizing upon a crucial problem facing arid land research the author poignantly reveals the complex role of water management within the context of environmental crisis a complex model portrays the subject matter as a system of interlocking subsystems covering the management structure the inventory and the urban hydrological conditions the system itself is also viewed within its wider urban ecological context of interaction between urban and industrial development land use and the physical environment this analytical grid also provides the framework for the evaluation of water management reforms remedial strategies programs and plans the choice of the urban regions Ürümqi Xinjiang and Phoenix Arizona within systems as culturally and politically different as the P.R. of China and the United States provides an up to date presentation of the main issues within a global perspective the evident socioeconomic contrast between the two systems also allows the reader to

explore the opportunities but also the limitations involved in the transfer of western know how

Water Management in Desert Environments 2014-03-12

deserts vast empty places where time appears to stand still the very word conjures images of endless seas of sand blistering heat and a virtual absence of life however deserts encompass a large variety of landscapes and life beyond our stereotypes as well as magnificent saharan dunes under blazing sun the desert concept encompasses the intensely cold winters of the gobi the snow covered expanse of antarctica and the rock strewn drylands of pakistan deserts are environments in perpetual flux and home to peoples as diverse as their surroundings peoples who grapple with a broad spectrum of cultural political and environmental issues as they wrest livelihoods from marginal lands the cultures environments and histories of deserts while fundamentally entangled are rarely studied as part of a network to bring different disciplines together the 1st oxford interdisciplinary deserts conference in march 2010 brought together a wide range of researchers from backgrounds as varied as physics history archaeology anthropology geology and geography this volume draws on the diversity of papers presented to give an overview of current research in deserts and drylands readers are invited to explore the wide range of desert environments and peoples and the ever evolving challenges they face

Changing Desert Environments 2020

plant nutrients are found in a relatively thin layer of soil materials that covers all of the continents of the entire world these plant nutrients provide the necessary food clothing and shelter for human existence as the population of the world increases the plant nutrients in desert environments become more and more important for the survival of mankind plant nutrients in desert environments is a general information book for both professionals and laymen the common plant nutrients present in deserts are identified and detailed instructions are given on how to effectively utilize them in commercial agriculture home gardening home landscaping for disturbed land reclamation and for recreational purposes outstanding photographs illustrate the topics

Changing Deserts 2012

in the indian context contributed papers presented at a symposium held at central arid zone research institute jodhpur in february 2001

Plant Nutrients in Desert Environments 2012-12-06

provides interesting and thought provoking reading and is highly recommended to anyone interested in desert ecosystems or community ecology the book should serve as an inspiration to many for future research journal of biogeography this book is not just about deserts it is an update of the contributions that research in desert systems is making to community ecology this book will provide a useful reference for desert ecologists as well as indicate critical directions where progress needs to be made ecology this important book fills a significant gap in previous syntheses by presenting a detailed series of reviews of current understanding of community patterns and structure in desert environments each chapter is thorough and well written and closes with a discussion of suggested future research these ideas will do much to focus interest on the importance of desert systems in understanding community thus this book has interest well beyond desert ecologists alone bioscience valuable reading and reference for ecology students teachers and researchers

quarterly review of biology

Human Impact on Desert Environment 2003

the fact that approximately one third of the world's land mass is arid desert may be congenial for the camel and the cactus but not for people nevertheless well over half a billion people or 15% of the world's population live in arid desert areas if the world's population were distributed evenly over the land surface we would expect to find about 30% of the population inhabiting arid desert areas does the fact that only 15% of the world's population live in an arid desert environment reflect the harshness of the environment or is it a testimony to the adaptability and ingenuity of mankind do we view the glass as half full or half empty the contributors to desert development man and technology in sparselands adopt the position that the cup is half full and in fact could be filled much more indeed many arid desert zones do thrive with life and given appropriate technological development such areas could support even greater populations while the dire malthusian prediction that rapid world population growth exceeds the carrying capacity of existent resource systems has gained popularity typified by the 1972 club of rome book limits to growth there is a growing body of serious work which rejects such pessimistic depletion models in favor of models which are mildly optimistic

The Ecology of Desert Communities 2016-10-18

deserts vast empty places where time appears to stand still the very word conjures images of endless seas of sand blistering heat and a virtual absence of life however deserts encompass a large variety of landscapes and life beyond our stereotypes as well as magnificent saharan dunes under blazing sun the desert concept encompasses the intensely cold winters of the gobi the snow covered expanse of antarctica and the rock strewn drylands of pakistan deserts are environments in perpetual flux and home to peoples as diverse as their surroundings peoples who grapple with a broad spectrum of cultural political and environmental issues as they wrest livelihoods from marginal lands the cultures environments and histories of deserts while fundamentally entangled are rarely studied as part of a network to bring different disciplines together the 1st oxford interdisciplinary deserts conference in march 2010 brought together a wide range of researchers from backgrounds as varied as physics history archaeology anthropology geology and geography this volume draws on the diversity of papers presented to give an overview of current research in deserts and drylands readers are invited to explore the wide range of desert environments and peoples and the ever evolving challenges they face

Desert Development 2012-12-06

this activity guide introduces children to the wild and often misunderstood environment of the desert and the people and cultures that thrive in and around them information is included on all types of deserts hot and dry coastal semiarid and polar kids learn what defines a desert and the creative ways plants and animals have adapted to survive in harsh desert environments also discussed are urban sprawl and its effects on desert habitats and how children can help protect this delicate environment by conserving energy and reducing consumption of petroleum based products engaging activities include drawing a petroglyph making a coral snake bracelet frying prickly pears conducting a gerbil study and making sand art

Changing Deserts 2012

a full colour exploration of desert environments incorporating photographs

and diagrams it seeks to convey essential information on the topic inline with the national curriculum and is ideal for school libraries and topic work for children between the ages of eight and ten school years 4 5 it is part of a series of four titles on themes related to natural environments each title incorporates features of non-fiction texts that pupils are required to study in literacy lessons such as contents lists diagrams flow charts captions report writing glossaries and indexes

Deserts 2004-04-01

desert sedimentary environments

Deserts 2009-10-20

did you know that antarctica is the largest desert in the world it receives so little rain or snow that it is almost as dry as the sahara whether cold hot or somewhere in between a third of the earth's land is desert learn about the geography and resources of desert habitats as well as how animals and people have adapted to and changed desert environments explore this habitat's future and what people can do to help keep it safe

Wet and Dry Environments 2007

despite the common understanding of the importance of desert development in the contemporary world there are relatively few books published to date on this subject the books and collective volumes published in this field deal primarily with environmental and physical aspects of desert development such as soil agriculture vegetation water resources etc in contrast this book addresses the issues of regional and urban development in desert areas which have not been given sufficient attention the present book is socially oriented it considers physical development of desert regions not as an end in itself but rather as an essential precondition for creating socially attractive and desirable environments for human settlement the book addresses the issues of desert development at three distinctive conceptual levels region urban environment and building and deals with both cold and hot deserts approximately half of the chapters in this book are original contributions that have not been published elsewhere the remaining chapters fall into two groups 1 chapters which have been reprinted from various refereed journals and 2 chapters initially printed elsewhere and revised by their respective authors specifically for this collective volume in the former case permission to reproduce the material has been obtained from the respective copyright holders and the details of original publication and names of copyright holders are indicated in footnotes

Desert sedimentary environments 2010-01-15

ten authors present an overview of the diverse natural environments in arizona including information on the state's climate geology soil and water resources flora and fauna and human impacts on the fragile ecosystems

Desert Habitats Around the World 2020-04-02

mcginnies's book is an excellent review of all aspects of the sonoran desert and its mountains geographic climatic and geologic Ñamerican scientist this book provides a fascinating introduction to desert life in the southwest Ñtrue west this true labor of love by an outstanding arid lands authority will broaden horizons deepen understanding and heighten awareness of the debt we owe to the founders of the desert laboratory Ñarizona highways a great source of revelation easy and enjoyable

to read and has left me with a great respect for the diversity of ways in which desert plants adapt to extremes Nsylvia martinelli journal of arid environments

Desert Regions 2012-12-06

the modern southwestern cities of phoenix tucson las vegas albuquerque and el paso occupy lands that once supported rich desert ecosystems typical development activities often resulted in scraping these desert lands of an ancient living landscape to be replaced with one that is human made and dependent on a large consumption of energy and natural resources design with the desert conservation and sustainable development explores the natural and built environment of the american southwest and introduces development tools for shaping the future of the region in a more sustainable way explore the desert landscape and ecology this transdisciplinary collaboration draws on insights from leading authorities in their fields spanning science ecology planning landscape development architecture and urban design organized into five parts the book begins by introducing the physical aspects of the desert realm the land geology water and climate the second part deals with the living and ecological aspects from plants and animals to ecosystems the third part on planning in the desert covers the ecological and social issues surrounding water natural resource planning and community development bring the desert into the city the fourth part looks at how to bring nature into the built environment through the use of native plants the creation of habitats for nature in urban settings and the design of buildings communities and projects that create life the final part of the book focuses on urban sustainability and how to design urban systems that provide a secure future for community development topics include water security sustainable building practices and bold architecture and community designs design solutions that work with the local environment this book will inspire discussion and contemplation for anyone interested in desert development from developers and environmentalists to planners community leaders and those who live in desert regions throughout this volume the contributors present solutions to help promote ecological balance between nature and the built environment in the american southwest and offer valuable insights for other ecologically fragile regions around the world

Natural Environments of Arizona 2008

these proceedings contain technical papers presented at the kuwait japan symposium on restoration and rehabilitation of the desert environment which was held in kuwait on 3 4 march 1996 kuwait was selected as the site for this fourth symposium because of its enormous need for restoring and rehabilitating its desert environment and because of the progress which kuwait and japan have been making collectively in these efforts at both pilot and field scale levels kuwait s desert land has recently suffered from one of the worst man made disasters of all time having been polluted with vast amounts of oil from the nearly 7000 oil wells that were destroyed during the gulf war the three themes for the symposium were remediation of the polluted soil enhancement of the visual impact of greenery and recycling of wastewater for rehabilitation purposes the first theme was highlighted with presentations on the kistr pec oil lake beds remediation project the second theme was launched with a broad based discussion on new strategies and alternatives for greening the desert and a summary of the kuwait national greenery plan which is now being prepared the third theme featured presentations on water resource management in japan and in kistr s reverse osmosis project to make municipal wastewater recyclable for greenery use in densely populated areas the closing session culminated in perspectives and recommendations from both kuwait and japan and with a historical summary of the long standing kuwait japan collaborative program

Discovering the Desert 1981-04

the evolution of desert adaptations 190 a comparison of behavior patterns 196 a comparison of behavior patterns in meriones gerbillus and perognathus 210 spacing and communication 217 acknowledgements 221 references 221 xi activity patterns of a desert rodent by n r french 225 introduction 225 methods 226 the microdosimeter and the index of activity 227 variation in activity 229 climatological variables and animal activity 229 analysis 232 discussion 237 summary 238 references 239 xii patterns of food space and diversity by m l rosenzweig barbara smigel a kraft 241 introduction 241 resource allocation by seed selection 242 habitat selection in space 251 the pattern of local species diversity 260 acknowledgements 266 references 266 xiii desert coloration in rodents by d l harrison 269 introduction 269 desert coloration 269 acknowledgements 275 references 275 xiv the biology of some desert dwelling ground squirrels by a c hawbecker 277 introduction 277 reproduction 279 food habits 288 population characteristics 294 habitat factors 297 references 302 ix xv reproductive biology of north american desert rodents by h d smith c d jorgensen 305 introduction 305 reproductive biology species summaries 308 references 328 xvi rodent faunas and environmental changes in the pleistocene of israel by e tchernov 331 introduction 331 the main biogeographical changes in the near east since the miocene 331 the composition of the rodents faunas in the pleistocene of israel 336 the main ecological changes in the quaternary of israel

Design with the Desert 2013-01-16

techniques for desert reclamation edited by andrew s goudie school of geography university of oxford major world environmental issues such as the degradation of deserts and their margins are covered in this book unlike many volumes which merely analyse the causes and consequences of desertification this book concentrates on the methods that are available to contend with some of the main symptoms of desert degradation these symptoms include soil erosion by wind soil erosion by water salinization loss of tree and shrub cover the loss of animal resources and the depletion of water resources if the utility stability and diversity of arid environments is to be maintained then the techniques described in this book will need to be employed the book is global in perspective and is written by academics and consultants with long continued and diverse experience of desert environments it attempts to present techniques for desert reclamation in a concise comprehensive and accessible way and assumes no technical expertise in the reader

The Warm Desert Environment 1977

a synthesis of the environmental and climatic history of every major desert and desert margin for researchers and advanced students

Restoration and Rehabilitation of the Desert Environment 2012-12-02

in this book the authors consider the ecology of desert organisms they have illustrated the principles involved with a selection of interesting examples from a wide body of research and from their own experience in their study they have given equal emphasis to physiological ecology and population ecology they have looked both at the way organisms avoid the extremes of the desert environment and at adaptations in their morphology physiology and behaviour which make them better able to tolerate the unfavourable conditions reproduction and the dynamics structure and evolution of desert communities are also discussed in detail and in the concluding chapter the authors consider the increasingly important role of man in shaping the desert

environment the book provides a broad synthesis of the major principles of ecology and with its balance between the botanical and zoological aspects of the subject it will be of value to life scientists in general students wishing to broaden their knowledge of ecology as well as the reader interested in desert biology will find here a wealth of fascinating material in a clear and concise form back cover

Rodents in Desert Environments 2012-12-06

most of the arid zones of the world have undergone vast ecological changes over the last five decades due to escalation of human population and alteration in land use pattern as a consequence of the human intervention in desert environments their biodiversity

Desert Sedimentary Environments 1970

the desert experience in israel shares the responses of settlers artists poets scientists and educators who lived near the blaustein institute in the negev desert of israel as they answer the question what difference has living in the desert year round made in your work the book begins with a reprint of david ben gurion's call for settlement and science in the desert this is followed by an account of life in early kibbutzim a discussion of the meaning of the term desert accounts of religion in the desert and the relationship of the desert experience to art theatre literature poetry sculpture and the use of color categories by the bedouin accounts of research on solar energy fossil fuel water microalgae runoff agriculture fish and architecture are followed by desert related activities in the high school field school and research institute

Negev, Land, Water, and Life in a Desert Environment 1982

this book presents current research from across the globe in the study of the fauna flora and environmental characteristics of desert life topics discussed include the conservation status and diversity of fishes amphibians reptiles and bird populations in the thar desert of india desert pupfish in death valley floral diversity threats and conservation in the nara desert of pakistan mollusc fauna and its ecology in the indian desert and sustainable beef cattle production in the desert environment of mendoza argentina

The Warm Desert Environment 1977-07-14

this book provides a comprehensive discussion on plant responses in hyperarid regions of egypt china mexico and pakistan it describes their location physiographic features accidental vegetation along two transects endangered vegetation species human impact and variety of plant types e.g. climbing succulent and parasitic studies on biotic and abiotic interactions plant biodiversity and soil plant relationships are also covered covering a wide range of plant conditions and adaptations this book analyzes what happens when plants must endure very high temperatures and aridity plants have adapted by evolving their physical structure to store and conserve water examples are the absence of leaves which reduces transpiration and the growth of extremely long roots allowing them to acquire moisture at or near the water table plants in hyperarid habitats have also made behavioral adaptations in order to survive by synchronizing with the seasons of greatest moisture and/or coolest temperatures for example desert perennials remain dormant during dry periods of the year then spring to life when water becomes available the book includes many color illustrations and has extensive and up to date references for further reading

Behaviour of Coastal Landslide Systems 2004

after a brief survey of biotopic and vegetational features and an account of the main groups of desert animals the most unusual patterns of the behaviour of the xerophilous fauna are examined the importance of the thermohygric regulation and self protective and locomotor mechanisms to the survival of arid adapted animals is emphasized and various adaptations in the alimentary reproductive and social spheres are analyzed the clear and fluent treatment will awaken the interest of the reading public from the amateur naturalists to research scientists

Techniques for Desert Reclamation 1990

Climate Change in Deserts 2014-08-11

Ecology of Desert Organisms 1982

Ecology of Desert Environments 2001-01-01

The Desert Experience in Israel 2009-09-29

Tourism and Deserts 2006

Deserts 2012

Plant Responses to Hyperarid Desert Environments 2017-11-10

Behavioural Adaptations of Desert Animals 2012-12-06

Adaptation to Desert Environment 1962

Origin and Evolution of Deserts 1983

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