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Descrizione fisica	1 online resource (620 pages) : illustrations, maps
Disciplina	338.97307
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction. -- Physical Aspects of the Desert Environment: Deserts of the World. -- Geology and Soils in Deserts of the Southwestern United States. -- Scales of Climate in Designing with the Desert. Water Resources in the Desert Southwest. -- Geologic, Hydrologic, and Urban Hazards for Design in Desert Environments. -- The Living Desert: Deep History and Biogeography of La Frontera. -- Vegetation Zones of the Southwest. -- Plant Ecology of the Sonoran Desert Region. -- Wildlife and Anthropogenic Changes in the Arid Southwest. -- Healing the Wounds: An Example from the Sky Islands. -- Built toBurn. -- Restoring Ecosystem Health in Frequent-Fire Forests of the American West. -- Desert Planning: Ecological Planning Method. -- Phoenix as Every City: A Closer Look at Sprawl in the Desert. -- Water Planning for Growing Southwestern Communities. -- Removable and Placed-Based Economies: Alternative Futures for America's Deserts. -- Environmental Injustice in the Urban Southwest: A Case Study of Phoenix, Arizona. -- Dwelling in Expanded Biotic Communities: Steps Toward Reconstructive Postmodern Communities. Dialogue on Development. -- Ecology in Design of Urban Systems: Ecological Design. -- Rainwater Harvesting and Stormwater Reuse for Arid Environments. -- Designing Habitats in Urban Environments. -- Native Plant Salvaging and Reuse in Southwestern Deserts. -- Sustainable Urban Living: Green Solar Energy for Food and Biofuels Production -- Integral Urbanism in Desert Cities: Recapturing Links in Metro Phoenix. -- Urban Sustainability:

Settlement, Growth, and Water Security for Southwest Cities -- Creating Tomorrow. -- Desert Vernacular: Green Building and Ecological Design in Scottsdale, Arizona. -- Sustainable Energy Alternatives for the Southwest. Search for a Lean Alternative. -- Creating Sustainable Futures for Southwestern Cities: The ProtoCity™ Approach in the Ciudad Juarez Mexico/El Paso, Texas Metroplex. -- Index.

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Sommario/riassunto

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.

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