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Titolo	Recent Approaches of Sustainable Architecture in Arid and Semi-arid Cities : Best Practices for Materials, Water, Energy and Urban Greening in Challenging Climates // edited by Zeina EIZein, Abdelazim Negm
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Nota di contenuto	Overview of Sustainable Architecture and Urban Practices in Cities and Communities -- The Role of Artificial Intelligence in Achieving Smart Sustainability and Mitigating Climate Change in Urban Contexts -- Architecture and Resilience: A Comprehensive Overview of Purpose, Evolution and Methodologies -- Developing a Framework for the Design of a Resilient Social-Ecological System in the Arab Region: An Overview on Arid and Semi-Arid Ecosystems.
Sommario/riassunto	This book provides a collection of the latest sustainable architecture and urban practices in arid and semi-arid cities and communities. It discusses the concept of resilience in architecture, discussing resilient socio-ecological systems in the Arab Region and using urban agriculture practices for designing resilient spaces. The book addresses sustainable building materials within the contexts of indoor spaces, climate change, and economic viability. It also addresses waste management and the concept of zero waste. The book highlights sustainable water management systems in buildings and cities, in addition to learned lessons from indigenous water management methods. It focuses on urban greening using haloculture for combating

global warming effects and discusses the impact of green roofs as a type of urban greening in improving the thermal performance of buildings. The book delves into heat wave hazards and geospatial analysis in urban settings, using cyber-physical systems in smart cities and carbon-neutral urban developments. The book is useful to researchers, professionals, practitioners, post-graduates, and undergraduates who are interested in the field of environmental architecture engineering.
