Modern Earth Buildings

Description:
The construction of earth buildings has been taking place worldwide for centuries. With the improved energy efficiency, high level of structural integrity and aesthetically pleasing finishes achieved in modern earth construction, it is now one of the leading choices for sustainable, low-energy building. Modern earth buildings provides an essential exploration of the materials and techniques key to the design, development and construction of such buildings.

Beginning with an overview of modern earth building, part one provides an introduction to design and construction issues including insulation, occupant comfort and building codes. Part two goes on to investigate materials for earth buildings, before building technologies are explored in part three including construction techniques for earth buildings. Modern earth structural engineering is the focus of part four, including the creation of earth masonry structures, use of structural steel elements and design of natural disaster-resistant earth buildings. Finally, part five of Modern earth buildings explores the application of modern earth construction through international case studies.

With its distinguished editors and international team of expert contributors, Modern earth buildings is a key reference work for all low-impact building engineers, architects and designers, along with academics in this field.

- Provides an essential exploration of the materials and techniques key to the design, development and construction of modern earth buildings
- Comprehensively discusses design and construction issues, materials for earth buildings, construction techniques and modern earth structural engineering, among other topics
- Examines the application of modern earth construction through international case studies

Contents:
Part 1 Introduction to modern earth buildings: Overview of modern earth building
Hygrothermal behaviour and occupant comfort in modern earth buildings
Fabric insulation, thermal bridging and acoustics in modern earth buildings
Modern earth building codes, standards and normative development
Alternative and recycled materials for earth construction
Soil mechanics and earthen construction: Strength and mechanical behaviour
Soil stabilisation and earth construction: Materials, properties, and techniques
Integral admixtures and surface treatments for modern earth buildings
Weathering and durability of earthen materials and structures. Part 3 Earth building technologies and earth construction techniques: History of earth building techniques
Stabilised soil blocks for structural masonry in earth construction
Modern rammed earth construction techniques
Pneumatically impacted stabilized earth (PISE) construction techniques
Conservation of historic earth buildings. Part 4 Modern earth structural engineering: Earth masonry structures: Arches, vaults and domes
Structural steel elements within stabilised rammed earth (SRE) walling
Natural disasters and earth buildings: Resistant design and construction
Australasian modern earth construction
European modern earth construction
Modern rammed earth construction in China.

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