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Titolo	Long-term performance and durability of masonry structures : degradation mechanisms, health monitoring and service life design // edited by Bahman Ghiassi, Paulo B. Lourenco
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Descrizione fisica	1 online resource (418 pages)
Collana	Woodhead Publishing series in civil and structural engineering
Disciplina	693.1
Soggetti	Masonry
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Nota di contenuto	Part One : Durability and degradation mechanisms of bare and strengthened masonry -- 1. Clay bricks -- 2. Concrete block -- 3. Stone -- 4. Earth masonry -- 5. Timber -- 6. Mortars -- 7. FRP-strengthened masonry -- Part Two : Health monitoring and testing -- 8. Dynamic identification of historic masonry structures -- 9. Laser scanning and its application to damage detection and monitoring in masonry structures -- 10. Acoustic emission testing -- Part Three : Long-term performance and service life design -- 11. Service life design of timber structures -- 12. Service life design of stone masonry structures -- 13. Probabilistic modeling of aging masonry -- Index.
Sommario/riassunto	Long-Term Performance and Durability of Masonry Structures: Degradation Mechanisms, Health Monitoring and Service Life Design focuses on the long-term performance of masonry and historical structures. The book covers a wide range of related topics, including degradation mechanisms in different masonry types, structural health monitoring techniques, and long-term performance and service life design approaches. Each chapter reflects recent findings and the state-of-the-art, providing practical guidelines. Key topics covered include the theoretical background, transport properties, testing and modeling, protective measures and standards and codes. The book's focus is on

individual construction materials, the composite system and structural performance.-Back cover.
