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Nota di contenuto	From destruction to regeneration. An integrative approach creating ecosystemic living spaces in architecture and urbanism -- Ruralkit Integrated spatial devices for multifunctional rural farms and countryside facilities in Sardinia -- Exploring the potential Role of AI Tools in Automating Design Validation for Building Code Compliance in Design Construction -- The Digitisation of the Cultural Heritage understanding the requirements to define a methodology -- Eco Friendly Materials and Products from the Waste Derived from the Processing of Apricena Stone State of the Art and New Employment Prospects -- Methodology for designing adaptive facade components smart materials and 4D printing for resilient construction -- Multi

criteria approach for assessing the sustainable skin for temporary housing modules -- A Comparison of Digital Procedures to support Renovation Processes of the Built Environment -- Building Heritage Materials Passports BHMPs for Resilient Communities -- Reversible building design Material circularity and life cycle extension in the construction industry -- Valorisation and reuse of cereal wastes for construction applications in a circular economy perspective a review of the state of the art -- Innovative cardboard components for architecture methodologies for performances and durability assessment -- Sustainable architecture computational modeling of green roofs through BIM and Dynamo VPL integration -- The Innovation Imagined for the Window International Patents in Comparison -- Sustainability Assessment of Refurbishment vs New ZEB Construction Systems A Long Term LCA Perspective on Durability and Building Lifespan -- Pilot Project of a New Positive Energy Timber Building for Sustainable Climate Positive Circular Communities Challenges Opportunities and Innovations.

Sommario/riassunto

This book gathers the proceedings of the 11th International Conference of Ar.Tec. (Scientific Society of Architectural Engineering), Colloqui.AT. e, which was held in Palermo, Italy, on June 12–15, 2024, and brought together scholars in the fields of construction and conservation history, building construction and performance, building design, and technologies. Digital transition and design of 4.0 buildings, digital twins for the management of historical building heritage, building-human-environment relationships, and mitigation of vulnerabilities for the preservation of the built environment are also explored. The contributions demonstrate that architectural engineering enables the construction of sustainable, resilient, adaptive, and high-performance buildings, and as such is instrumental in fighting against climate change.
