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Descrizione fisica	1 online resource (582 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 438
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Soggetti	Buildings - Design and construction Renewable energy sources Sustainability Building Construction and Design Renewable Energy
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	An influence of roof lattice girder inclination on the work of structural systems supporting shed roof sheeting -- Behaviour of Steel Lattice Tower with Partially Preloaded Bolted Splices -- Digital image correlation pattern for concrete characteristics – optimal speckle -- The influence of the damage placement in the compressed area of concrete on the deformability of bent reinforced concrete elements -- The problem of recycling construction waste in Poland -- FEM simulations and experimental testing of a connector for prefabricated cylindrical tank elements -- Variability of Darci Friction Factor in Differential Equation for Enforced Flow in Collector-pipeline -- Testing of the ribbed dome which is manufactured by 3D printing -- Elimination options of solar heat gains through transparent surfaces - Review -- Comparison of Daylight Levels using Simulation Calculation Tools.
Sommario/riassunto	This book gathers the latest advances, innovations, and applications in the field of effective methods of calculation, resource-saving technologies, and advanced materials in civil and environmental engineering, as presented by leading international researchers and engineers at the XVIII International Scientific Conference Current Issues

of Civil and Environmental Engineering “Lviv- Košice – Rzeszów”, held in Rzeszów, Poland, on September 6–8, 2023. It covers highly diverse topics, including structural shaping and optimization; aspects of structural behavior and modeling; advanced analysis methods; experimental tests and numerical simulations; design codes, in particular Eurocodes and other national and regional limit state codes; and highway and bridges engineering. It also discusses modern architectural and structural solutions; innovative materials and products; durability and maintenance; fabrication and erection; sustainability in construction; renewable energy sources; heat, gas, and water supply; ventilation and air-conditioning; ecological and energy-saving technologies, modern water purification, and treatment technologies; and the protection of water ecosystems. This book, which was selected by means of a rigorous international peer-review process, highlights numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

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