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Nota di contenuto	About the Editors -- The Latest Scientific Problems Related to the Implementation and Diagnostics of Construction Objects -- A Multi-Criteria Decision Support Concept for Selecting the Optimal Contractor -- Typology Selection of Retaining Walls Based on Multicriteria Decision-Making Methods -- Technical and Structural Problems Related to the Interaction between a Deep Excavation and Adjacent Existing Buildings -- Selection of the Optimal Actions for Crashing Processes Duration to Increase the Robustness of Construction Schedules -- Development of Alfa Fiber-Based Mortar with Improved Thermo-Mechanical Properties -- Modeling the Drying of Capillary-Porous Materials in a Thin Layer: Application to the Estimation of Moisture Content in Thin-Walled Building Blocks -- Impact of Alcohol on Occupational Health and Safety in the Construction Industry at Workplaces with Scaffoldings -- Analysis of Defects in Residential Buildings Reported during the Warranty Period -- Structural Analysis of Factors Influencing the Costs of Facade System Implementation -- Influence of Maximum Aggregate Grain Size on the Strength Properties and Modulus of Elasticity of Concrete -- A Methodology for Determining the Rehabilitation Needs of Buildings -- Creep Assessment of the Cement Matrix of Self-Compacting Concrete Modified with the Addition of Nanoparticles Using the Indentation Method -- The S-Curve as a Tool for Planning and Controlling of Construction Process-Case Study -- A Proposed Soft Computing Model for Ultimate Strength

Estimation of FRP-Confined Concrete Cylinders -- Temperature Impact on the Assessment of Reinforcement Corrosion Risk in Concrete by Galvanostatic Pulse Method.

Sommario/riassunto

This book contains publications related to the special topic entitled: "The Latest Scientific Problems Related to the Implementation and Diagnostics of Construction Objects". Construction is a sector of the economy that is characterized by a very high variability of execution conditions and a large variety of building structures. In a period of very rapid economic development, this high variability and diversity generates many new scientific problems that must be solved in order to further improve the quality of production, as well as to reduce the cost and time of construction. The purpose of the issue is to present and discuss the results of the latest research in the broad field of construction engineering, particularly concerning: modification of the composition of construction materials using various micro- and nanomaterials, by-products or wastes; modern methods of controlling construction processes; methods of planning and effective management in construction, as well as methods of diagnosing construction objects. The articles published in this issue deal with theoretical, experimental, applied and modeling research conducted worldwide in the above-mentioned scientific areas.