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Nota di contenuto	Intro -- Preface -- Acknowledgments -- Contents -- RILEM Publications -- 3D Modelling and Printing -- Use of Automated Control Machining Tools for Design, Construction, and Testing with Hydraulic Physical Models -- 1 Introduction -- 2 'Traditional' Constructive Methods -- 3 'Novel' Constructive Technologies -- 3.1 Framework -- 3.2 CNC Cutting-Subtracting Manufacturing -- 3.3 3D Modeling and Printing-Additive Manufacturing -- 3.4 Automation

for Experimental Measurements and Control -- 4 Examples of Application of 'Novel' Constructive Technologies -- 4.1 3D Printing of a Complex-Shaped Flip Bucket -- 4.2 3D Printing of a Failed Dam with PLC Material -- 4.3 CNC Machining of a Mid-Bottom Spillway -- 4.4 Producing an Entire Physical Model Based on 'Novel' Technologies -- 5 Conclusions -- References -- 3D Modelling and Printing for the Design of the Wooden Structure of the Church of San Martín de Plasencia, Spain -- 1 Introduction -- 1.1 The Wooden Structure of the San Martíns' Church -- 1.2 Modifications in the '60 s of the Twentieth Century and Fire in 2020 -- 1.3 Objective -- 2 Use of the 3D Model for Checking the Structural Design -- 2.1 Digital Model of the Supporting Structure -- 2.2 Detection of Previous Structural Anomalies -- 2.3 Digital and Physical Models to Justify the Optimal Structural Form -- 2.4 Structural Basis -- 2.5 Dimensioning and Checking of Timber Transversal Sections -- 2.6 Structural-Legal Justification -- 3 Method Carried Out for 3D Modelling and 3D Printing -- 4 Conclusions -- References -- Biomaterials, Nanomaterials, and New Materials -- Thermal Properties of Polymer Adhesive Modified with TiO2 Used for Structural Strengthening -- 1 Introduction -- 2 Materials and Methods -- 2.1 Epoxy Resin and Granite Powder -- 2.2 Thermal Analysis -- 3 Results and Discussion -- 4 Conclusions -- References.
Production and Characterization of Polymeric Capsules Containing Rejuvenators for Asphalt Mixtures Self-healing Purposes -- 1 Introduction -- 2 Experiments -- 2.1 Materials -- 2.2 Preparation of Microcapsules -- 2.3 Testing Methods -- 3 Results and Discussions -- 3.1 Characterization of Microcapsules -- 3.2 Self-healing of Bituminous Mastic -- 4 Conclusions -- References -- A Review of Laboratory Tests to Evaluate Agro-Industrial Wastes Properties as Building Materials -- 1 Introduction -- 2 Testing Agro-Industrial Wastes and Composites -- 2.1 Agro-Industrial Wastes -- 2.2 Composites -- 2.3 Bio-Susceptibility -- 3 Discussion -- 4 Conclusions -- References -- Geotechnical Characterization of Vegetal Biomass Ashes Based Materials for Liner Production -- 1 Introduction -- 2 Methodology -- 3 Results and Discussion -- 3.1 Geotechnical Characterization -- 3.2 Mechanical Performance -- 3.3 Hydraulic Conductivity -- 3.4 Chemical and Mineralogical Composition -- 4 Conclusion -- References -- An Input in the Asian Wasp Nest (AWN) Study -- 1 Introduction -- 2 Context -- 3 Some Highlights About AWN -- 4 The AWN Used as the Study Case -- 5 X-ray Test of the AWN -- 6 Conclusions -- References -- Destructive and Non-destructive Testing -- Moisture Buffering Value of Plasters: The Influence of Two Different Test Methods -- 1 Introduction -- 2 Moisture Buffering Value -- 2.1 NORDTEST Protocol -- 2.2 ISO 24353 -- 3 Tested Plasters -- 4 Results -- 5 Conclusions -- References -- Study on the Effect of the Bedding Mortar Composition on the Shear and Compression Behavior of Old Brick Masonry Walls -- 1 Introduction -- 2 Mechanical Properties of the Mortars -- 3 Diagonal Compression Tests -- 4 Axial Compression Tests -- 5 Conclusion -- References -- New Methodology for Rocks' Geomechanical Characterization with Schmidt Sclerometer -- 1 Introduction.
2 Materials and Methods -- 3 Results and Discussion -- 4 Conclusions -- References -- Experimental Analysis of Traditional Stone Masonry Walls Under Blast Loadings -- 1 Experimental Work -- 2 Visual Damage Assessment -- 3 Results -- 3.1 Comparison of Experimental and Theoretical Shock Wave Profiles -- 3.2 Comparison of Incident Peak and Reflected Pressures -- 3.3 Comparison of Incident and Reflected Impulses -- 4 Conclusions -- References -- Dynamic

Behavior of a Two-Storey Cross Laminated Timber Mockup -- 1 Introduction -- 2 Materials and Method -- 3 Ambient Vibration Test and Modal Identification -- 4 Numerical Modeling -- 4.1 Parametric Analyses on Epistemic Uncertainties -- 4.2 Parametric Analyses on Aleatory Uncertainties -- 4.3 Calibration -- 5 Conclusions -- References -- Shear Capacity Assessment of Steel-To-CLT Connectors -- 1 Introduction -- 2 Materials and Method -- 2.1 Theory -- 2.2 Description of Specimens and Testing Procedure -- 3 Results -- 3.1 Characterization of Shear Strength and Stiffness -- 3.2 Discussion of Results -- 4 Conclusions -- References -- Test Procedures for the Characterization of Earth Plastering Mortars: Necessary Adaptations -- 1 Introduction -- 2 Adaptation of Tests to Characterize Earth Mortars -- 2.1 Specimens and Samples -- 2.2 Capillary Absorption and Drying -- 2.3 Water Erosion by Dripping Action -- 3 Characterization Tests of Earth Plasters that Can be Carried Out on Other Mortars -- 3.1 Linear Shrinkage -- 3.2 Dry Abrasion Resistance -- 3.3 Adsorption and Desorption -- 3.4 Surface Cohesion -- 4 Conclusions -- References -- Large Static Testing Equipment: Design and Testing of a Settlement Facility -- 1 Introduction -- 2 Experimental Facility Description -- 3 Settlement Tests on Masonry Shear Walls -- 4 Conclusions -- References -- A Discussion on the Determination of Permeability and Absorption in Concrete. 1 Introduction -- 2 Existing Structures: LCA and Experimental Tests -- 2.1 LCA for Interventions on Concrete Structures -- 2.2 Intervention Intervals and Sustainability -- 3 Past and Present Experimental Methods for Permeability Determination -- 3.1 Literature Review -- 3.2 Current Test Standards for Concrete Watertightness -- 4 Discussion -- 5 Conclusions -- References -- Physical Methods and Scanning Electron Microscopy for Evaluation of Bioclogging in Geotextiles -- 1 Introduction -- 2 Methods for Bioclogging Evaluation -- 2.1 Permeability and Permittivity Tests -- 2.2 Scanning Electron Microscopy -- 2.3 Weighing Experiments -- 2.4 Tracer Experiments -- 3 Preliminary Tests on Biofilm Growing in a Non-woven Geotextiles -- 4 Analysis and Discussion -- 5 Conclusions -- References -- A Comparative Experimental Campaign to Estimate the Normal Interface Stiffness of Dry-Joint Masonry Structures -- 1 Introduction -- 2 Experimental Campaign -- 2.1 Material and Specimens -- 2.2 Deformation-Based Tests -- 2.3 Vibration-Based Tests -- 3 Normal Interface Stiffness -- 3.1 Deformation-Based Results -- 3.2 Vibration-Based Results -- 3.3 Comparison of Deformation- and Vibration-Based Results -- 4 Conclusions -- References -- Thermal Properties of Polymer Floor Coating with Alternative Granite Powder Filler -- 1 Introduction -- 2 Materials and Methods -- 2.1 Epoxy Resin and Granite Powder -- 2.2 Thermal Analysis -- 3 Results and Discussion -- 4 Conclusions -- References -- Absorption Tests of Binary and Ternary Mortar Mixtures and Their Relationship with Compressive Strength -- 1 Introduction -- 2 Materials and Methods -- 2.1 Materials -- 2.2 Mix Design, Mixing Procedure, and Testing Methods -- 3 Results and Discussion -- 3.1 Effect of Supplementary Cementitious Materials on the Capillary Absorption -- 3.2 Relationship Between Absorption and Compressive Strength. 4 Conclusions -- References -- Precision of Test Methods for Hot Mix Asphalt -- 1 Introduction -- 2 Methodology -- 2.1 Materials -- 2.2 Experimental Procedure -- 3 Results and Discussion -- 4 Conclusion -- References -- Assessment of Mechanical and Physical Behaviour of Sandstones Through Quasi Non-destructive Tests -- 1 Introduction -- 2 Experimental Programme -- 2.1 Open Porosity and Densities -- 2.2 Compressive Strength -- 2.3 Drilling Strength -- 3 Results -- 4

Conclusions -- References -- Inspection, Monitoring, and Automatic Damage Identification -- Design and Construction of a Test Setup to Investigate Ground Settlement Response of Large-Scale Masonry Building Models -- 1 Introduction -- 2 Masonry Building Model and Design of a Settlement Test Setup -- 2.1 Building Model -- 2.2 Settlement Scenario -- 2.3 Design of Settlement Test Apparatus -- 2.4 Site Validations for Settlement Test Setup Before the Construction of the Building Model -- 3 Experimental Testing of the Masonry Building -- 4 Conclusions -- References -- Metrological Characterization and Traceability of the Strain Column Measurement Standard -- 1 Introduction -- 2 Metrological Testing of Compression Machines -- 3 Experimental Methods -- 3.1 Dimensional and Geometrical Characterization -- 3.2 Calibration -- 3.3 Uniformity -- 3.4 Conformity Assessment -- 4 Results -- 4.1 Dimensional and Geometrical Characterization -- 4.2 Calibration -- 4.3 Uniformity -- 5 Conclusions -- References -- Experimental Design for Building Retrofit Studies: The Assessment of the Thermal Behaviour of a Solar Passive Retrofit Solution -- 1 Introduction -- 2 The Retrofit Solution -- 3 The Design of the Experimental Setup -- 4 Results -- 4.1 Results from the Heating Season -- 4.2 Results from the Cooling Season -- 5 Conclusion -- References.
Condition Assessment of a Metallic Runway Beam Based on Dynamic and Static Testing.

Sommario/riassunto

This book gathers the peer-reviewed selected papers presented at the 3rd International Conference on Testing and Experimentation in Civil Engineering (TEST&E 2022), held in Almada, Portugal, on June 21-23, 2022. It showcases the role of smart technologies in all civil engineering areas, such as structures and construction, geotechnics and natural resources, hydraulics and water resources, transportation and communication networks. The conference topics encompass big data and advanced data processing systems, AI applications, virtual and augmented reality, 3D modeling and printing, digital twins, automation, sensing and detection technologies, inspection, monitoring and automatic damage identification, destructive and non-destructive testing, bio, nano and new materials, disaster risk reduction and emergency management. As such the book represents an invaluable, up-to-the-minute tool, and offers an important platform to engineers and architects.