

1. Record Nr.	UNINA9911022372703321
Autore	Nenadalova Sarka
Titolo	Concrete Structures and Technology
Pubbl/distr/stampa	Zurich : , : Trans Tech Publications, Limited, , 2025 ©2025
ISBN	3-0364-1548-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (226 pages)
Altri autori (Persone)	HamplovaKaterina JohovaPetrá
Disciplina	624.1834
Soggetti	Concrete construction Structural engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>Intro -- Concrete Structures and Technology -- Preface -- Table of Contents -- Chapter 1: Bridges -- Execution of Repair Works on the Trogir -ovo Island Bridge -- Development of Conceptual Design of Bridges -- The Past Decade of UHPFRC Bridges in the Czech Republic -- Bridge Modelling and Structural Analysis in BIM -- Building Information Modelling of Concrete Bridges and Residential Building Structures -- Chapter 2: Reliability Assessments and Health Monitoring -- Design of FLM71 Fatigue Loading Model for Fatigue Assessment of Bridge Structures -- Probabilistic Model for Thermal Actions on Concrete Bridges Based on Meteorological Measurements - Case Study -- Smart Health Monitoring of Concrete Bridges Using Digital Twin and Ai Applications -- Chapter 3: Concrete Technologies -- Review Paper Properties of Fibers and Mortar of Slurry Infiltrated Fiber Concrete (SIFCON) -- Enhancing Concrete Durability Through Hybrid Waste Tire Steel Fiber Integration -- Model Uncertainty in European UHPC Standards: Insights from SIA-2052 and NF P18-710 Flexure Models -- An Innovative Approach to Evaluating the Freeze-Thaw Resistance of Concrete Using the Ultrasonic Pulse Velocity Test -- Decarbonization of Concrete Structures from a Structural Engineer's Perspective -- Creep and Shrinkage Measured on Different Concretes for Bridges -- The Properties of Hardened Concrete with Different Dosages of Recycled</p>

Concrete Aggregates -- Chapter 4: Concrete Structures --
Determination of the Deformation Behavior of Concrete Structures
Reinforced with FRP Bars: A Theoretical Study -- The Sweating Slab
Syndrome - A Scientific Analysis -- Post-Tensioned Slabs in Garages -
A Rational Choice -- Minimum Reinforcement against Brittle Failure in
Concrete Structures -- Multicriteria Optimization of Reinforced
Concrete Floor Slabs.

Experimental Verification of Punching Shear with FRP Reinforcement:
Innovations in the New Eurocode Generation -- Anomaly of the Course
of the Internal Forces of the Ring Slabs -- Keyword Index -- Author
Index.

Sommario/riassunto

Selected peer-reviewed extended articles based on abstracts presented
at the 14th Central European Congress on Concrete Engineering (CCC)
Aggregated Book.
