

TABLE OF CONTENTS

BUILDING STRUCTURES AND STRUCTURAL MECHANICS

Freiherrová Nela, Krejsa Martin

Membrane Structures and Their Use in Civil Engineering 1

Holický Milan, Jung Karel

Reliability Verification of an Existing Reinforced Concrete Slab 11

Kubzová Monika, Křivý Vít, Krejsa Martin, Kreislová Kateřina

Analysis of Variable Parameters of Prediction Models 15

Major Maciej, Major Izabela, Kalinowski Jarosław, Kosiń Mariusz

Analysis of a Selected Node of a Truss Made of Cold-rolled Sections Based on the Finite Element Method 20

Marcalíková Zuzana, Neuwirthová Zdeňka, Čajka Radim

Parametric Study for Influence of Input Parameters for Analysis of Fibre Reinforced Concrete Slab-Soil Interaction 25

Novák Lukáš, Vořechovský Miroslav

Generalization of Coloring Linear Transformation 31

Salamak Marek, Jasiński Marcin, Płaszczyk Tomasz, Żarski Mateusz

Analytical Modelling in Dynamo 36

Seitl Stanislav, Miarka Petr, Kala Zdeněk

Geometry Functions for Edge Cracks in Steel Bridge under Three- and Four- Point Bending with Various Span 44

Seitl Stanislav, Miarka Petr, Růžička Vladimír, Malíková Lucie, Merta Ildiko

Wedge Splitting Test: Displacement Field Analysis by Multi-parameter Fracture Mechanics 50

Shvangiradze Merab

Outdoor Lighting Wind Generators with Basalt Fiber Composite Blades 56

Le Tuan Duc, Nguyen Qui Thanh, Čajka Radim

- Numerical Analysis of Subsoil-Reinforced Concrete Slab Interaction 60

Vokál Marek, Drahorád Michal

- The Load Bearing Capacity of Railway Masonry Arch Bridges 66

Vyhlídal Michal, Keršner Zbyněk

- Modelling of Three-point Bending Test of Beams with Steel Inclusion Situated in the Middle
of the Span 73

FACILITY MANAGEMENT, MUNICIPAL ENGINEERING AND ARCHITECTURE

Frolíková Palánová Klára

- Re-use of Agricultural Facility Brownfields 80