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Reviewers

Reviewers are selected by the Editors among the IBRACON members with recognized competence in the specific field of each contribution. They are acknowledged at the end of each volume.

We are now publishing the third issue of 2018 of the IBRACON Structures and Materials Journal (Volume 11 Number 3, June 2018) with eleven articles on materials and concrete structures. The first article brings a comparison between load contour diagrams generated for rectangular RC cross-sections under combined axial compression and biaxial bending obtained according to the two options allowed by NBR 6118:2014: the first using the parabolic-rectangular stress-strain diagram and the second using the rectangular diagram. Evaluation of the influence of the corrosion degree on mechanical properties of reinforcements buried for 60 years is the objective of the second article. The third article reports a study on the influence of the placement rate on the lateral pressure of fresh concrete using theoretical models from the literature and international codes. The objective is the evaluation of the lateral pressure of fresh concrete at high rates according to actual data from current practice. The fourth article presents a nonlinear analysis of concrete structures using GFEM enrichment strategy with a microplane constitutive model. The fifth article describes an experimental evaluation of the mechanical behavior of a geopolymer concrete beam with a comparison with a Finite Element nonlinear numerical model. The sixth article reports an evaluation of chloride penetration and life cycle of self-healing concretes activated by crystalline admixture. The objective of the seventh article is the effect of creep and shrinkage of the concrete in soil-structure interaction, analyzing a 17-story building on shallow foundation, in the central part of the construction, and steel piles, on the boundary. A computational tool for preliminary tunnel design using Bernaud & Rousset's New Implicit Method is described in the eighth article, and validated with a finite element analysis. The ninth article presents experimental results from confined pullout tests, comparing the performance of cast steel reinforcement bars with that of bars bonded to concrete with epoxy resin. The tenth article presents an evaluation of the influence of transverse rebars on bond between steel reinforcement and cellular concrete with very low compressive strength. The subject of the eleventh article is the analysis of creep strains on reinforced concrete thin-walled columns, emphasizing the fresh concrete consistency effect. We acknowledge the contributions of authors and reviewers to this issue.

Américo Campos Filho, Eduardo N. B. Santos Júlio, José Luiz Antunes de Oliveira e Sousa, José Márcio Fonseca Calixto, Leandro Francisco Moretti Sanchez, Mauro Vasconcellos Real, Osvaldo Luís Manzoli, Paulo César Correia Gomes, Rafael Giuliano Pileggi, Roberto Caldas de Andrade Pinto, Ronaldo Barros Gomes and Túlio Nogueira Bittencourt, Editors