

NUMERICAL MODELING IN REINFORCED CONCRETE AND ITS VALIDATION

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ABSTRACT

The main purpose of this mini symposium is to bring together the experts in the field of numerical modelling and experimental validation in reinforced concrete. Concrete is a composite material that exhibits a heterogeneous internal structure and the study of its damage mechanisms is complex. When reinforced with steel bars, modelling the failure mechanisms becomes even more complicated [1,2]. Faced with such a challenging task, realistic description of the physics behind is essential and this calls for the joint efforts from both numerical and experimental fields.

We welcome work in concrete and other cement-based materials, numerical modelling and advanced experimental/characterizing techniques in failure mechanisms, transport properties, corrosion, etc. We are confident that this would help specialists from both sides in gaining new insights into their pursuit in the field of (reinforced) concrete.

REFERENCES

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