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Optical Fiber Sensor for Prestressed Concrete Structures Bond Behaviors Measurements

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During the slack period of precast concrete structures fabrication, the prestressing force is transferred, by adhesion to concrete being the armor compliant behaviors, up today, a still pending matter. To contribute to a better understanding of the subject, a new quasi-distributed optical fiber sensor system is specifically designed, fabricated and embedded into a prestressed concrete prismatic beam. The experimental results are presented, discussed and finally, conclusions are extracted. The fiber transducer is based on Brag grating technology and a new custom encapsulation..

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Ключевые слова:

Содержание.

Abstract
Introduction
Optical Fiber transducer
Transducer integration and beam fabrication
Results and discussion
Conclusions
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