

On the effectiveness of composite layers reinforcements on the static behaviour of damaged civil structures through unified formulation

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own kinematic described independently from the others, without the need of any ad-hoc theory implementation. As a matter of fact, one can evaluate the influence of thickness, material properties and fiber direction of reinforcements in a unified manner.

Arch-type structures are analyzed, comparing obtained results with those provided from literature and experimental tests. The results establish and reports graphs showing the effects of the reinforcements on the overall behavior of the components, with the aim of providing a reliable starting point for future design of structure in the civil engineering field.