

[Behavior of reinforced concrete beams by confined oblique rods](#)

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Description

The specific objectives of this study are: verifying the applicability of the proposed method of reinforcement of the beams by oblique connecting rods confined by a metallic embedded grid material to improve the behavior of concrete from the point of view strength to shear force, and confronting the experimental results acquired with empirical formulas developed by other researches. In this study, experimental investigations were performed to evaluate performance characteristics such as flexural ductility, resistance to shear force and load capacity. The experimental and numerical studies in the present work represent a promising revelation regarding the effectiveness of the proposed reinforcement process by an oblique connecting rods confined by a embedded metallic grid material laid out in the zone of influence of the shear force tilted to 45. The confrontation of the experimental and theoretical results shows a ...