



## GFRP Bridge panel by material and FEM analysis

By Beata Stankiewicz

LAP Lambert Academic Publishing Mai 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x4 mm. Neuware - The aim of this monograph research was to analysis the bridge deck panels made using Reinforced Fiber Glass Polymers. Considering future structures, the composite materials of the fiber glass are very promising. It is possible to create bridge spans consisting of steel main beams and GFRP decks (according to example of ASSET system). Identification of the type of fiber glass, polymer matrix or adhesive types with steel or concrete is a very interesting topic. According to the author's investigation parallel identification of GFRP panel: DTA analysis, spectroscopy analysis, scanning and optical microscope monitoring have been presented with the stress basic research - flexural strength of GFRP deck panels. The use of fiber composites has great potential in bridge building. These bridge constructions have a longer durability, are anticorrosion, have a light weight deck and have imposing stress parameters; all are good alternative for traditional structures. 60 pp. Englisch.

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