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Shear Design of Straight and Haunched Concrete Beams without Stirrups

By Vu Hong Nghiep

Shaker Verlag Mrz 2012, 2012. Buch. Book Condition: Neu. 238x172x17 mm. Neuware - In spite of very long research activities with the first tests conducted by Mörsch in the 1920th, the design for shear of concrete members without transverse reinforcement is still not cleared. This may be demonstrated in the fact that most shear design procedures are not based on mechanical models but on empirical equations which show very big uncertainties. Thus very high safety factors have to be used. The problem of shear design exists primarily for slabs. In Germany numerous old concrete bridges show a lack of safety in transverse direction since the year 2001, when a new DIN-code was introduced. Furthermore the shear design principle of haunched concrete structures, as for example, cantilever slab of bridges, is hardly cleared, up to now. This research work aims to improve the understanding of the shear behaviour, to identify the significant shear resistance mechanisms and finally to develop new shear design models for practical use which is valid for straight and haunched concrete beams without stirrups. The essential, partially very different approaches known from the literature are analysed first and their accuracies are checked by a comparison with the test...

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