SHEAR IN REINFORCED CONCRETE BEAMS

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ABSTRACT

This work is devoted to a review of works on shear stresses in reinforced concrete beams. The nature of shear failures both in reinforced concrete beams with and without shear reinforcement is dealt. Factors affecting the modes of failures and the capacity of the beams are also look into.

The effect of shear-span to effective-depth ratio, percentage of longitudinal reinforcement and concrete compressive strength to the shear stresses are included in the study. Some of the design theories relating these factors to shear stresses are also included.

Several codes of practice are selected so as to study the adequacy of the shear provisions. Deep beams and corbels are also included.

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