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Model Comparisons for a Reinforced Concrete Deep Beam
(Modellvergleiche für eine Stahlbetonscheibe)

Deep beams are a common structural element with reinforced concrete. Basically they cannot be analyzed with the beam theory. Thus a number of alternative models have been developed for deep beam design. The most significant models are strut and tie models on one hand and linear and nonlinear finite element models regarding the particular properties of reinforced concrete on the other hand.

In the present thesis a selection of models shall be applied to a typical setup for a reinforced concrete deep beam. Data for each model should be prepared, a calculation be performed and a design conducted. The different design results should be compared and an evaluation should be prepared.

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