

## Civil Engineering Structural Analysis 2 Important Question

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Aslam Kassimali is Professor of Civil Engineering at Southern Illinois University. He teaches structural engineering, nonlinear structural analysis, and structural dynamics and stability. Consistently recognized for teaching excellence, Dr. Kassimali has received 19 awards for outstanding teaching at the department and the college level since ...

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Next, the moment diagram due to the prestressing force and including the effect of the intermediate support is denoted as the  $M_2$  diagram. This is obtained by structural analysis of the continuous beam subjected to the upward thrust. Since the profile of the tendon is parabolic in each span, the upward thrust is uniform and is given as  $w$ . The downward thrust at the location of the central kink is not considered as it directly goes to the intermediate support.

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as buildings, bridges, aircraft and ships. Structural analysis employs the fields of applied mechanics, materials science and applied mathematics to compute a structure's deformations, internal forces, stresses, support reactions, accelerations, and stability. The results of the analysis are used to v

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