ARCH 614 S2014abn

ARCH 614. Study Guide for Quiz 3

This guide is not providing "answers" for the conceptual questions. It is a list of topical concepts and their application you should be familiar with. It is an *aid* to help prepare for the quiz.

Covers material of Lectures 6 & 7

Beam behavior (bending, shear, deflection, torsion, bearing)
Beam stresses
Prestressing and post-tensioning
Beam styles
Internal shear, axial force & bending moment
Concentrated loads
Distributed loads – uniform / non-uniform
Beam supports
Statically Determinate vs. Indeterminate
Inflection point
w vs. W
Equivalent center of load area
Equivalent center of load area The Equilibrium Method
-
The Equilibrium Method
The Equilibrium Method The Semigraphical Method
The Equilibrium Method The Semigraphical Method Areas under a curve and <i>change</i>
The Equilibrium Method The Semigraphical Method Areas under a curve and <i>change</i> Effect of forces on shear diagram
The Equilibrium Method The Semigraphical Method Areas under a curve and <i>change</i> Effect of forces on shear diagram Effect of moments on moment diagram