

# About Civil Engineering

## Basic of Civil Engineering

1] Modulus of Elasticity of Concrete —

$$E_c = 5000 \sqrt{f_{ck}}$$

2] Tensile strength of Concrete =  $0.7 \sqrt{f_{ck}}$

3] Deflection means temporary displacement

4] Deformation is permanent displacement

5] Segregation is separation of cement, sand and aggregate

6] weight of steel =  $\frac{D^2}{162.2}$  kg/m

7] Weight of steel =  $\frac{D^2}{533}$  kg/ft

8] 1 yard = 3 feet

9] Dimensional tolerance of cube =  $\pm 2 \text{ mm}$

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# Basic Civil Engineering Principles

**Minjie Lin**



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