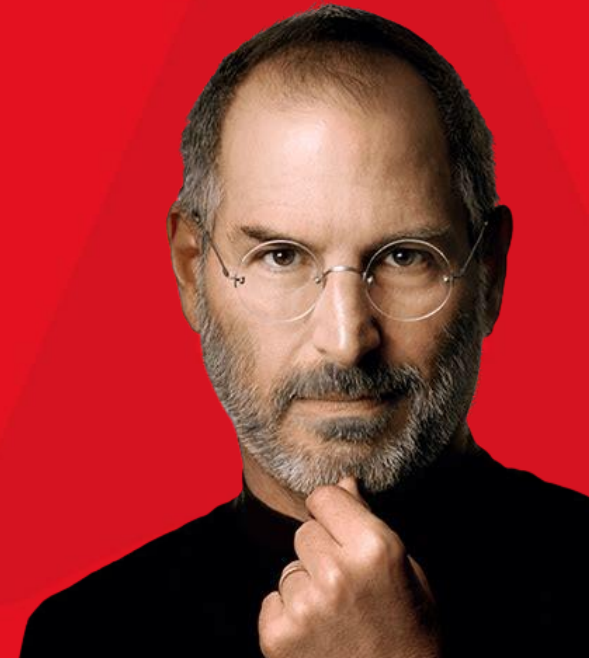


**"Engineering is the closest
thing to magic that exists in
the world."**

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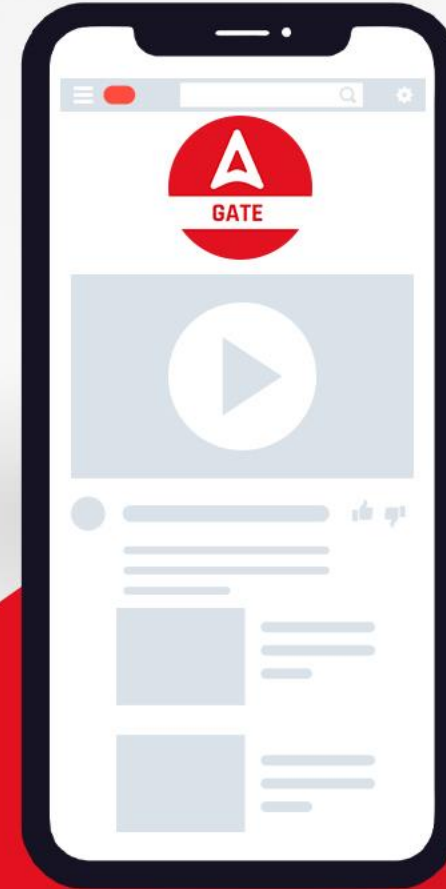
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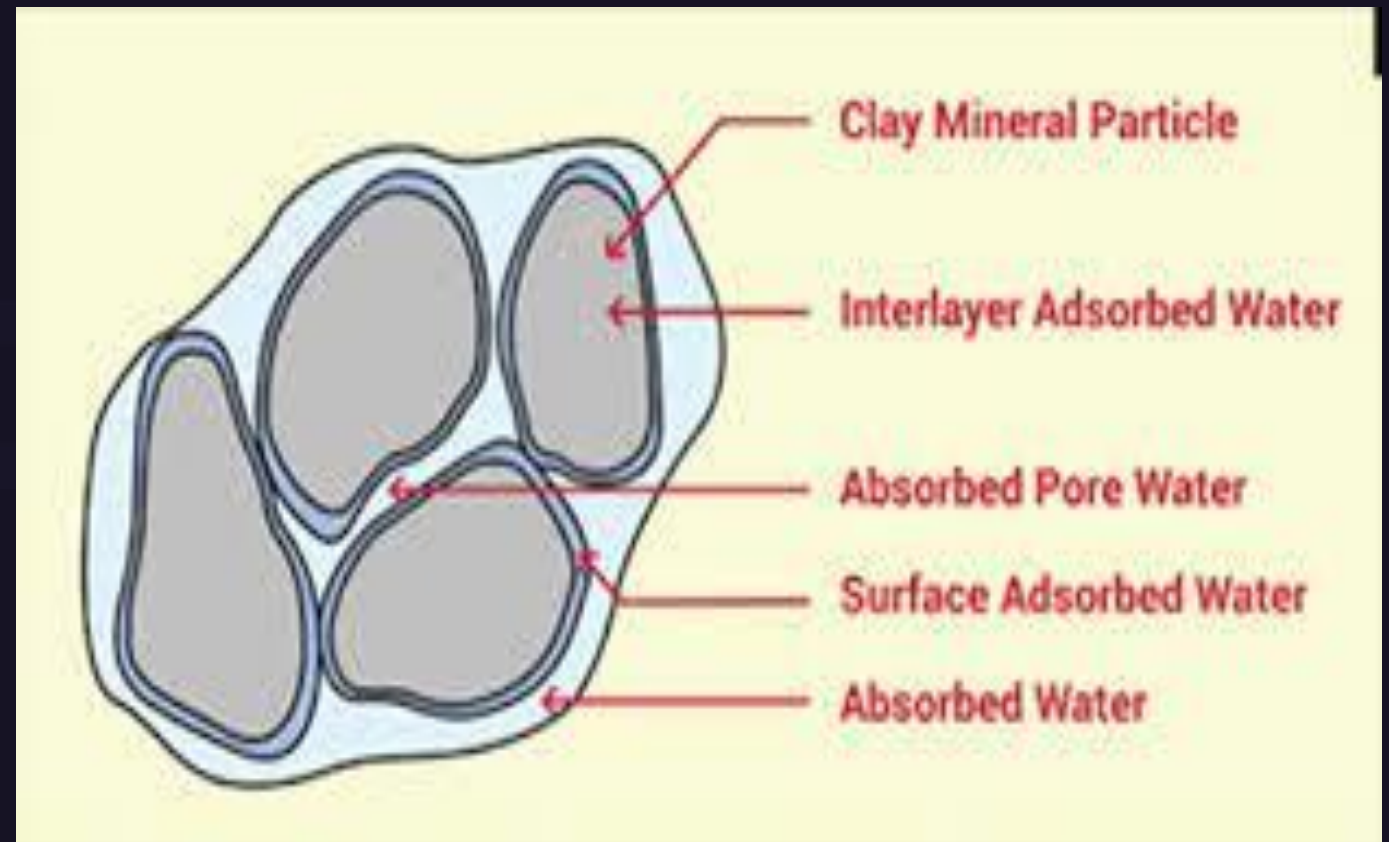
Environment Engineering

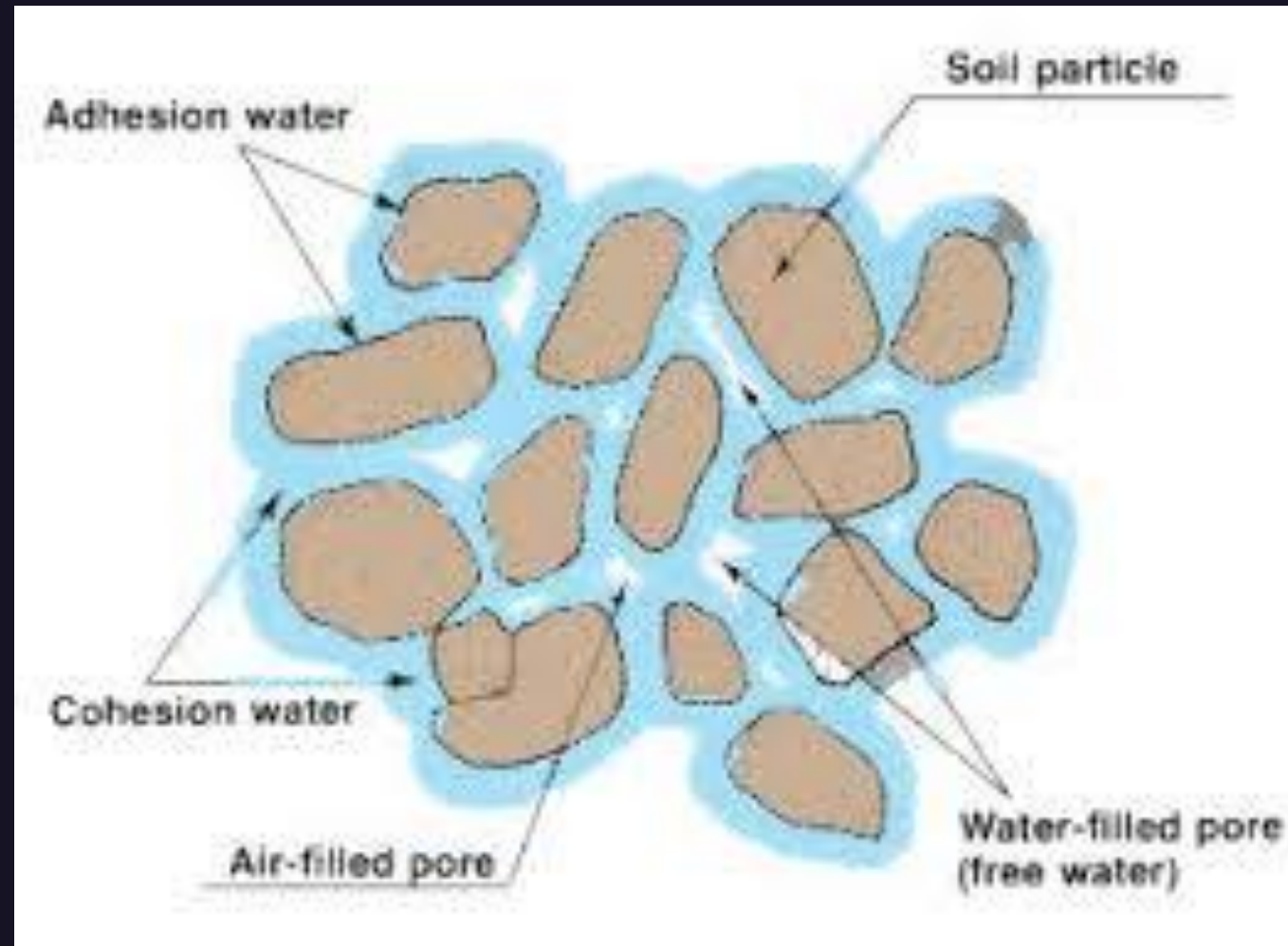
SOURCE OF WATER

Civil Engineering

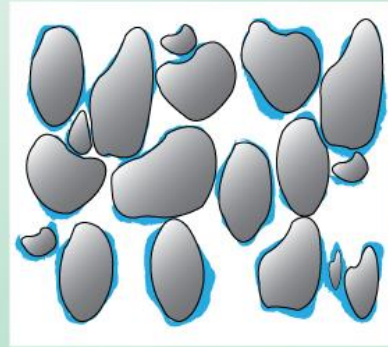


PELLICULAR WATER/ ADSORBED WATER :





Hydroscopic Water

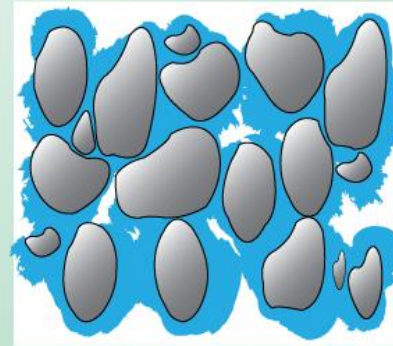


Water adheres to soil particles

Wilting Point
15 bars



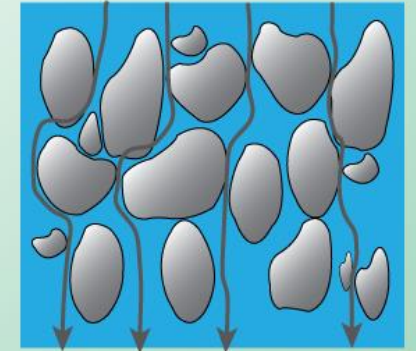
Capillary Water



Water held in large pores

Available for crop use

Gravitational Water

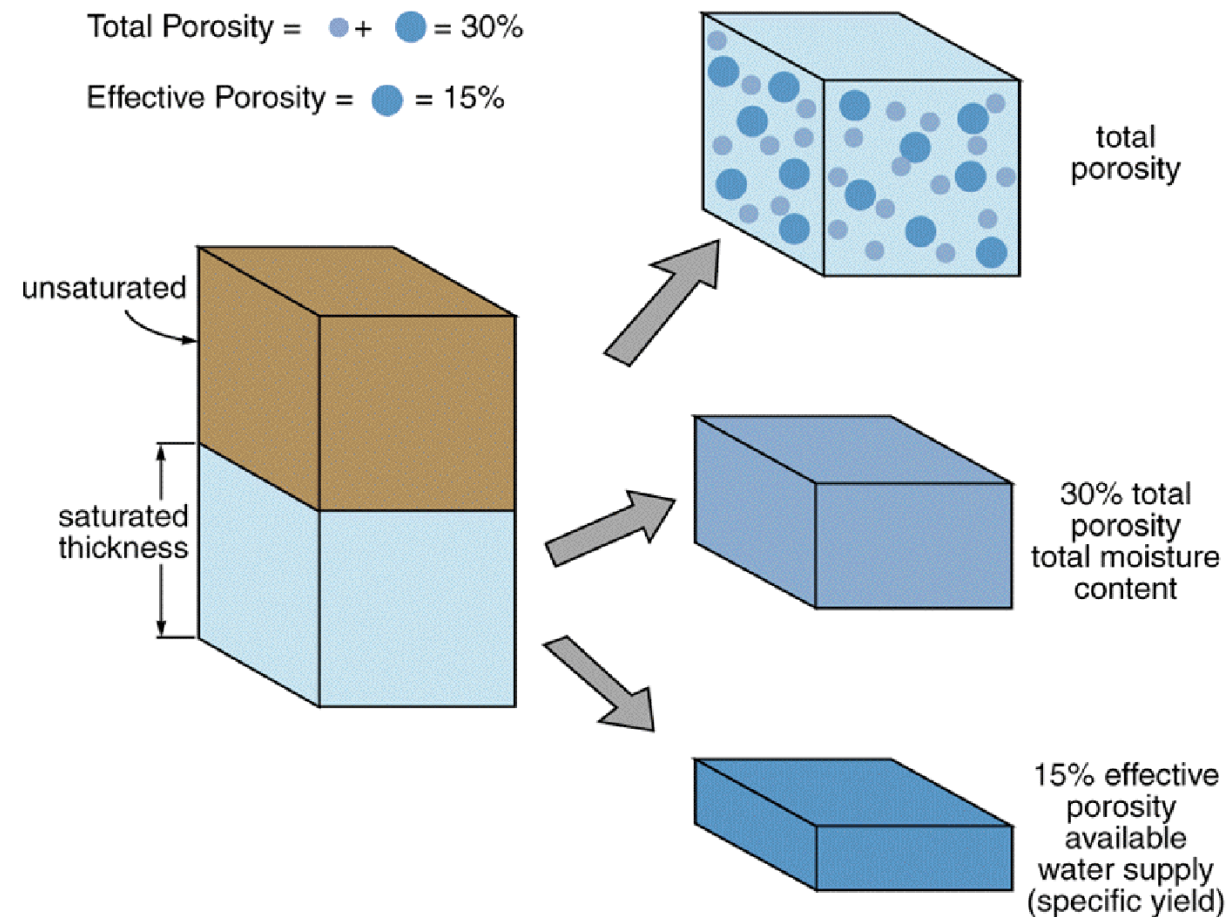


Water drains through soil profile

Field Capacity
1/3 bar

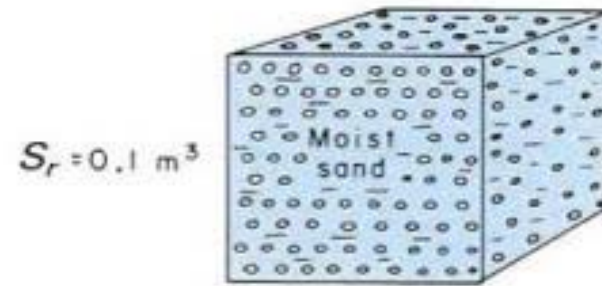


SPECIFIC YIELD :



SPECIFIC RETENTION :

Sandy Gravel Aquifer



$$n = S_y + S_r = \frac{0.2 \text{ m}^3}{1 \text{ m}^3} + \frac{0.1 \text{ m}^3}{1 \text{ m}^3} = 0.30$$

Assume that the aquifer has:

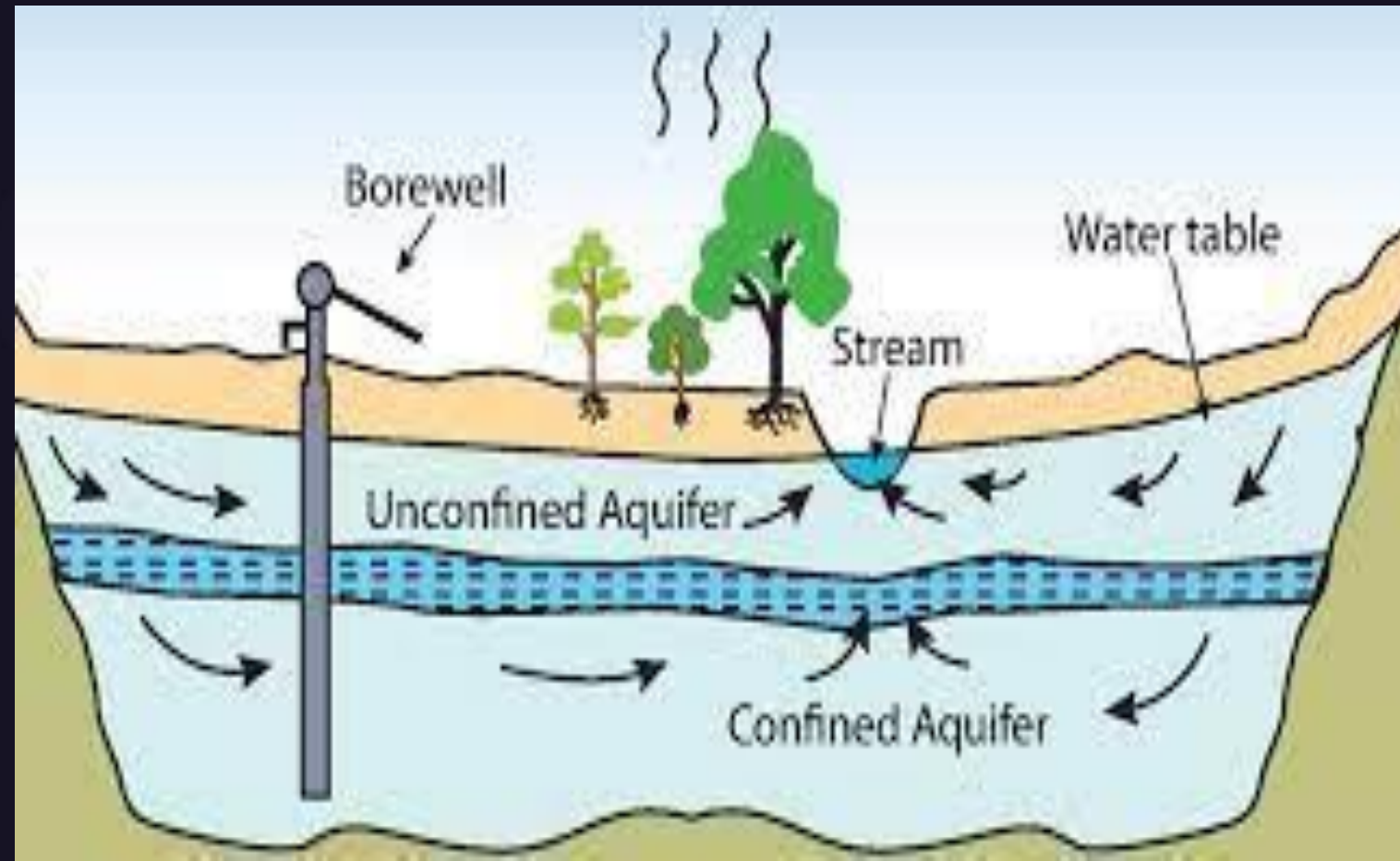
Porosity, n = 30%

Specific yield, S_y = 20%

Specific retention, S_r = 10%

Geological Formation :

Aquifers :



Aquicludes:

Aquitard:

Aquifuge

Water Demand :

Annual Draft :

Annual Average daily draft :

Annual avg. per capita daily draft :

Domestic Water Demand :

Industrial Water Demand:

Institutional Water Demand:

Water for Public Use :

Fire Demand:

What we learn tomorrow ?

THANKS FOR

Watching

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