Important Unconfined Aquifer Formulas PDF

Formulas
Examples
with Units

List of 42
Important Unconfined Aquifer Formulas

1) Aquifer Discharge Formulas

1.1) Discharge from Two Wells with Base 10 Formula

Evaluate Formula

Formula

$$Q = \frac{1.36 \cdot K_{WH} \cdot \left(h_2^{\,2} - h_1^{\,2} \right)}{\log\left(\left(\frac{r_2}{r1} \right), 10 \right)}$$

Example with Units

$$0.6994\,\text{m}^3/\text{s} = \frac{1.36 \cdot 10.00\,\text{cm/s} \cdot \left(17.8644\,\text{m}^{\,2} - 17.85\,\text{m}^{\,2} \right)}{\log\left(\left(\frac{10.0\,\text{m}}{0.000000001\,\text{m}} \right), 10 \right)}$$

1.2) Discharge given Length of Strainer Formula

Evaluate Formula

Formula

$$Q = \frac{2.72 \cdot K_{WH} \cdot s_t \cdot \left(L + \left(\frac{s_t}{2} \right) \right)}{\log\left(\left(\frac{R_w}{r} \right), 10 \right)}$$

Example with Units

$$1.8353\,\text{m}^3/\text{s} = \frac{2.72 \cdot 10.00\,\text{cm/s} \cdot 0.83\,\text{m} \cdot \left(2\,\text{m} + \left(\frac{0.83\,\text{m}}{2} \right) \right)}{\log\left(\left(\frac{8.6\,\text{m}}{0.0037\,\text{m}} \right), 10 \right)}$$

1.3) Discharge in Unconfined Aquifer Formula

Evaluate Formula

Formula

$$Q = \frac{\pi \cdot K_{WH} \cdot \left(H^2 - h_w^{\,2} \right)}{\log\left(\left(\frac{R_w}{r} \right), e \right)}$$

Example with Units

$$0.8189\,\text{m}^3/\text{s} = \frac{3.1416 \cdot 10.00\,\text{cm/s} \cdot \left(5\,\text{m}^{\,2} - 2.44\,\text{m}^{\,2} \right)}{\log\left(\left(\frac{8.6\,\text{m}}{7.5\,\text{m}} \right), e \right)}$$

1.4) Discharge in Unconfined Aquifer with Base 10 Formula

Evaluate Formula

Formula

$$Q = \frac{1.36 \cdot K_{WH} \cdot \left(b_w^{\,2} - h_w^{\,2} \right)}{\log\left(\left(\frac{R_w}{r} \right), 10 \right)}$$

Example with Units

$$1.5704\,\text{m}^3/\text{s} = \frac{1.36 \cdot 10.00\,\text{cm/s} \cdot \left(14.15\,\text{m}^{\,2} - 2.44\,\text{m}^{\,2} \right)}{\log\left(\left(\frac{8.6\,\text{m}}{7.5\,\text{m}} \right), 10 \right)}$$

1.5) Discharge when Two Observation Well is Taken Formula

Evaluate Formula

Formula

$$Q = \frac{\pi \cdot K_{WH} \cdot \left(h_2^{\,2} - h_1^{\,2} \right)}{\log\left(\left(\frac{r_2}{r_1} \right), e \right)}$$

Example with Units

$$0.3611\,\text{m}^3/\text{s} = \frac{3.1416 \cdot 10.00\,\text{cm/s} \cdot \left(17.8644\,\text{m}^{\,2} - 17.85\,\text{m}^{\,2} \right)}{\log\left(\left(\frac{10.0\,\text{m}}{1.07\,\text{m}} \right), e \right)}$$

1.6) Rate of Flow given Coefficient of Permeability Formula

Evaluate Formula

Formula

$$Q = K_w \cdot i_e \cdot A_{xsec}$$

Example with Units

$$1.2247\,\text{m}^3/\text{s} = 1125\,\text{cm/s} \cdot 17.01 \cdot 6400\,\text{mm}^2$$

1.7) Rate of Flow given Flow Velocity Formula

Evaluate Formula

Formula

$$Q = \left(V_{wh'} \cdot A_{sec} \right)$$

Example with Units

$$1.5437\,\text{m}^3/\text{s} = \left(24.12\,\text{m/s} \cdot 64000\,\text{mm}^2 \right)$$

2) Aquifer Thickness Formulas

2.1) Cross-section Area of Soil Mass given Flow Velocity Formula

Evaluate Formula

Formula

$$A_{xsec} = \left(\frac{V_{aq}}{V_f} \right)$$

Example with Units

$$6400\,\text{mm}^2 = \left(\frac{64\,\text{m}^3/\text{s}}{0.01\,\text{m/s}} \right)$$

2.2) Length of Strainer given Discharge Formula

Evaluate Formula

Formula

$$l_{st} = \left(\frac{Q \cdot \log\left(\left(\frac{R_w}{r}\right), 10\right)}{2.72 \cdot K_{WH} \cdot S_{tw}} \right) - \left(\frac{S_{tw}}{2} \right)$$

Example with Units

$$10.2071\,\text{m} = \left(\frac{1.01\,\text{m}^3/\text{s} \cdot \log\left(\left(\frac{8.6\,\text{m}}{7.5\,\text{m}}\right), 10\right)}{2.72 \cdot 10.00\,\text{cm/s} \cdot 4.93\,\text{m}} \right) - \left(\frac{4.93\,\text{m}}{2} \right)$$

2.3) Thickness of Aquifer for Discharge in Unconfined Aquifer with Base 10 Formula

Evaluate Formula

Formula

$$b = \sqrt{h_w^{\,2} + \frac{Q \cdot \log\left(\left(\frac{R_w}{r}\right), 10\right)}{1.36 \cdot K_s}}$$

Example with Units

$$2.7298\,\text{m} = \sqrt{2.44\,\text{m}^{\,2} + \frac{1.01\,\text{m}^3/\text{s} \cdot \log\left(\left(\frac{8.6\,\text{m}}{7.5\,\text{m}}\right), 10\right)}{1.36 \cdot 8.34}}$$

2.4) Thickness of Aquifer given Discharge in Unconfined Aquifer Formula

Evaluate Formula

Formula

$$H = \sqrt{h_w^{\,2} + \frac{Q \cdot \log\left(\left(\frac{R_w}{r}\right), e\right)}{\pi \cdot K_{WH}}}$$

Example with Units

$$5.4263\,\text{m} = \sqrt{2.44\,\text{m}^{\,2} + \frac{1.01\,\text{m}^3/\text{s} \cdot \log\left(\left(\frac{8.6\,\text{m}}{7.5\,\text{m}}\right), e\right)}{3.1416 \cdot 10.00\,\text{cm/s}}}$$

2.5) Thickness of Aquifer given Drawdown Value measured at Well Formula

Evaluate Formula

Formula

$$b = s_t + h_w$$

Example with Units

$$3.27\,\text{m} = 0.83\,\text{m} + 2.44\,\text{m}$$

3) Coefficient of Permeability Formulas

3.1) Coefficient of Permeability given Discharge and Length of Strainer Formula

Evaluate Formula

Formula

$$K_{WH} = \frac{Q}{2.72 \cdot S_{tw} \cdot \left(l_{st} + \left(\frac{S_{tw}}{2} \right) \right)}{\log\left(\left(\frac{R_w}{r} \right), 10 \right)}$$

Example with Units

$$10.0056\,\text{cm/s} = \frac{1.01\,\text{m}^3/\text{s}}{2.72 \cdot 4.93\,\text{m} \cdot \left(10.20\,\text{m} + \left(\frac{4.93\,\text{m}}{2} \right) \right)}{\log\left(\left(\frac{8.6\,\text{m}}{7.5\,\text{m}} \right), 10 \right)}$$

3.2) Coefficient of Permeability given Discharge from Two Wells with Base 10 Formula

Evaluate Formula

Formula

$$K_{WH} = \frac{Q}{1.36 \cdot \left(h_2^{\,2} - h_1^{\,2} \right)}{\log\left(\left(\frac{r_2}{r1} \right), 10 \right)}$$

Example with Units

$$14.4403\,\text{cm/s} = \frac{1.01\,\text{m}^3/\text{s}}{1.36 \cdot \left(17.8644\,\text{m}^{\,2} - 17.85\,\text{m}^{\,2} \right)}{\log\left(\left(\frac{10.0\,\text{m}}{0.000000001\,\text{m}} \right), 10 \right)}$$

3.3) Coefficient of Permeability given Discharge in Unconfined Aquifer Formula

Evaluate Formula

Formula

$$K_{WH} = \frac{Q}{\pi \cdot \left(H^2 - h_w^{\,2} \right)}{\log\left(\left(\frac{R_w}{r} \right), e \right)}$$

Example with Units

$$12.3335\,\text{cm/s} = \frac{1.01\,\text{m}^3/\text{s}}{3.1416 \cdot \left(5\,\text{m}^{\,2} - 2.44\,\text{m}^{\,2} \right)}{\log\left(\left(\frac{8.6\,\text{m}}{7.5\,\text{m}} \right), e \right)}$$

3.4) Coefficient of Permeability given Discharge in Unconfined Aquifer with Base 10 Formula

Evaluate Formula

Formula

$$K_{WH} = \frac{Q}{1.36 \cdot \left(b_w^{\,2} - h_{well}^{\,2} \right)}{\log\left(\left(\frac{R_w}{r} \right), 10 \right)}$$

Example with Units

$$12.4669\,\text{cm/s} = \frac{1.01\,\text{m}^3/\text{s}}{1.36 \cdot \left(14.15\,\text{m}^{\,2} - 10.000\,\text{m}^{\,2} \right)}{\log\left(\left(\frac{8.6\,\text{m}}{7.5\,\text{m}} \right), 10 \right)}$$

3.5) Coefficient of Permeability given Discharge of Two Wells under Consideration Formula

Evaluate Formula

Formula

$$K_{WH} = \frac{Q}{\pi \cdot \left(h_2^{\,2} - h_1^{\,2} \right)}{\log\left(\left(\frac{r_2}{r1} \right), e \right)}$$

Example with Units

$$10.761\,\text{cm/s} = \frac{1.01\,\text{m}^3/\text{s}}{3.1416 \cdot \left(17.8644\,\text{m}^{\,2} - 17.85\,\text{m}^{\,2} \right)}{\log\left(\left(\frac{10.0\,\text{m}}{0.03\,\text{m}} \right), e \right)}$$

3.6) Coefficient of Permeability given Flow Velocity Formula

Evaluate Formula

Formula

$$K'' = \left(\frac{V_{fwh}}{i_e} \right)$$

Example with Units

$$6.5844\,\text{cm/s} = \left(\frac{1.12\,\text{m/s}}{17.01} \right)$$

3.7) Coefficient of Permeability given Radius of Influence Formula

Evaluate Formula

Formula

$$K_{soil} = \left(\frac{R_w}{3000 \cdot s_t} \right)^2$$

Example with Units

$$0.0012\,\text{cm/s} = \left(\frac{8.6\,\text{m}}{3000 \cdot 0.83\,\text{m}} \right)^2$$

3.8) Coefficient of Permeability given Rate of Flow Formula

Evaluate Formula

Formula

$$k' = \left(\frac{Q}{i_e \cdot A_{xsec}} \right)$$

Example with Units

$$927.7631\,\text{cm/s} = \left(\frac{1.01\,\text{m}^3\text{/s}}{17.01 \cdot 6400\,\text{mm}^2} \right)$$

4) Depth of Water in Well Formulas

4.1) Depth of Water at Point 1 given Discharge from Two Wells with Base 10 Formula

Evaluate Formula

Formula

$$h_1 = \sqrt{h_2^{\,2} - \frac{Q \cdot \log\left(\left(\frac{r_2}{r_1}\right), 10\right)}{1.36 \cdot K_{WH}}}$$

Example with Units

$$17.649\,\text{m} = \sqrt{17.8644\,\text{m}^{\,2} - \frac{1.01\,\text{m}^3\text{/s} \cdot \log\left(\left(\frac{10.0\,\text{m}}{1.07\,\text{m}}\right), 10\right)}{1.36 \cdot 10.00\,\text{cm/s}}}$$

4.2) Depth of Water at Point 1 given Discharge of Two Wells under Consideration Formula

Evaluate Formula

Formula

$$h_1 = \sqrt{h_2^{\,2} - \frac{Q \cdot \log\left(\left(\frac{r_2}{r_1}\right), e\right)}{\pi \cdot K_{WH}}}$$

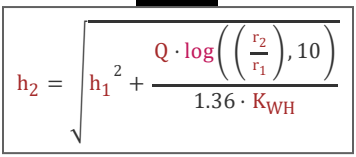
Example with Units

$$17.8241\,\text{m} = \sqrt{17.8644\,\text{m}^{\,2} - \frac{1.01\,\text{m}^3\text{/s} \cdot \log\left(\left(\frac{10.0\,\text{m}}{1.07\,\text{m}}\right), e\right)}{3.1416 \cdot 10.00\,\text{cm/s}}}$$

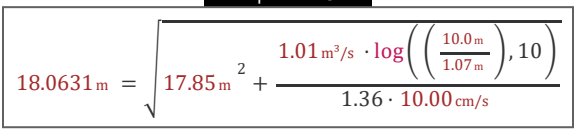
4.3) Depth of Water at Point 2 given Discharge from Two Wells with Base 10 Formula

Evaluate Formula

Formula



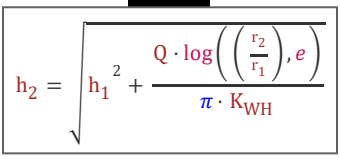
Example with Units



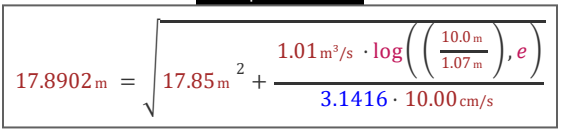
4.4) Depth of Water at Point 2 given Discharge of Two Wells under Consideration Formula

Evaluate Formula

Formula



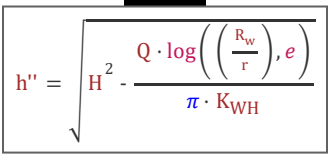
Example with Units



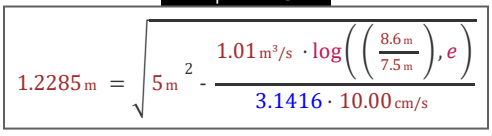
4.5) Depth of Water in Well given Discharge in Unconfined Aquifer Formula

Evaluate Formula

Formula



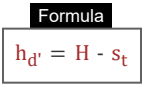
Example with Units



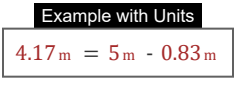
4.6) Depth of Water in Well given Drawdown Value measured at Well Formula

Evaluate Formula

Formula



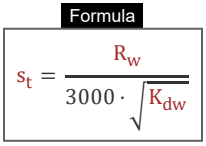
Example with Units



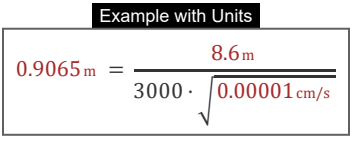
4.7) Drawdown at Well given Radius of Influence Formula

Evaluate Formula

Formula



Example with Units



5) Flow Velocity Formulas

5.1) Flow Velocity given Coefficient of Permeability Formula

Evaluate Formula

Formula

$$V_{fwh} = \left(K_{WH} \cdot i_e \right)$$

Example with Units

$$1.701\,\text{m/s} = \left(10.00\,\text{cm/s} \cdot 17.01 \right)$$

5.2) Flow Velocity given Rate of Flow Formula

Evaluate Formula

Formula

$$V_{wh'} = \left(\frac{V_{uaq}}{A_{xsec}} \right)$$

Example with Units

$$25\,\text{m/s} = \left(\frac{0.16\,\text{m}^3\text{/s}}{6400\,\text{mm}^2} \right)$$

5.3) Flow Velocity when Reynold's Number is Unity Formula

Evaluate Formula

Formula

$$V_f = \left(\frac{\mu_{viscosity}}{\rho \cdot D_p} \right)$$

Example with Units

$$0.0037\,\text{m/s} = \left(\frac{0.19\,\text{P}}{997\,\text{kg/m}^3 \cdot 0.0052\,\text{m}} \right)$$

5.4) Hydraulic Gradient given Flow Velocity Formula

Evaluate Formula

Formula

$$i = \left(\frac{V_{wh'}}{K_w} \right)$$

Example with Units

$$2.144 = \left(\frac{24.12\,\text{m/s}}{1125\,\text{cm/s}} \right)$$

5.5) Hydraulic Gradient given Rate of Flow Formula

Evaluate Formula

Formula

$$i = \left(\frac{V_{uaq}}{K_w \cdot A_{xsec}} \right)$$

Example with Units

$$2.2222 = \left(\frac{0.16\,\text{m}^3\text{/s}}{1125\,\text{cm/s} \cdot 6400\,\text{mm}^2} \right)$$

6) Radial Distance and Radius of well Formulas

6.1) Diameter or Particle Size when Reynold's Number is Unity Formula

Evaluate Formula

Formula

$$D = \left(\frac{\mu_{viscosity}}{\rho \cdot V_f} \right)$$

Example with Units

$$0.0191\,\text{m} = \left(\frac{0.19\,\text{P}}{997\,\text{kg/m}^3 \cdot 0.01\,\text{m/s}} \right)$$

6.2) Dynamic Viscosity when Reynold's Number is Unity Formula

Evaluate Formula

Formula

$$\mu_{viscosity} = \rho \cdot V_f \cdot D$$

Example with Units

$$0.1994\,\text{P} = 997\,\text{kg/m}^3 \cdot 0.01\,\text{m/s} \cdot 0.02\,\text{m}$$

6.3) Mass Density when Reynold's Number is Unity Formula

Evaluate Formula

Formula

$$\rho = \frac{\mu_{viscosity}}{V_f \cdot D}$$

Example with Units

$$950\,\text{kg/m}^3 = \frac{0.19\,\text{P}}{0.01\,\text{m/s} \cdot 0.02\,\text{m}}$$

6.4) Radial Distance of Well 1 based on Discharge from Two Wells with Base 10 Formula

Evaluate Formula

Formula

$$R_1 = \frac{r_2}{10^{\frac{1.36 \cdot K_{soil} \cdot \left(h_2^2 - h_1^2\right)}{Q}}}$$

Example with Units

$$9.9998\,\text{m} = \frac{10.0\,\text{m}}{10^{\frac{1.36 \cdot 0.001\,\text{cm/s} \cdot \left(17.8644\,\text{m}^2 - 17.85\,\text{m}^2\right)}{1.01\,\text{m}^3\text{/s}}}}$$

6.5) Radial Distance of Well 1 based on Discharge of Two Wells under Consideration Formula

Evaluate Formula

Formula

$$R_1 = \frac{r_2}{\exp\left(\frac{\pi \cdot K_{soil} \cdot \left(h_2^2 - h_1^2\right)}{Q}\right)}$$

Example with Units

$$9.9998\,\text{m} = \frac{10.0\,\text{m}}{\exp\left(\frac{3.1416 \cdot 0.001\,\text{cm/s} \cdot \left(17.8644\,\text{m}^2 - 17.85\,\text{m}^2\right)}{1.01\,\text{m}^3\text{/s}}\right)}$$

6.6) Radial Distance of Well 2 based on Discharge from Two Wells with Base 10 Formula

Evaluate Formula

Formula

$$R_2 = r_1 \cdot 10^{\frac{1.36 \cdot K_{soil} \cdot \left(h_2^2 - h_1^2\right)}{Q}}$$

Example with Units

$$1.07\,\text{m} = 1.07\,\text{m} \cdot 10^{\frac{1.36 \cdot 0.001\,\text{cm/s} \cdot \left(17.8644\,\text{m}^2 - 17.85\,\text{m}^2\right)}{1.01\,\text{m}^3\text{/s}}}$$

6.7) Radial Distance of Well 2 based on Discharge of Two Wells under Consideration Formula

Evaluate Formula

Formula

$$R_2 = r_1 \cdot \exp\left(\frac{\pi \cdot K_{soil} \cdot \left(h_2^2 - h_1^2\right)}{Q}\right)$$

Example with Units

$$1.07\,\text{m} = 1.07\,\text{m} \cdot \exp\left(\frac{3.1416 \cdot 0.001\,\text{cm/s} \cdot \left(17.8644\,\text{m}^2 - 17.85\,\text{m}^2\right)}{1.01\,\text{m}^3\text{/s}}\right)$$

6.8) Radius of Well based on Discharge in Unconfined Aquifer Formula

Evaluate Formula

Formula

$$r_w = \frac{R_w}{\exp\left(\frac{\pi \cdot K_{soil} \cdot \left(H_i^2 - h_w^2\right)}{Q}\right)}$$

Example with Units

$$8.5999\,\text{m} = \frac{8.6\,\text{m}}{\exp\left(\frac{3.1416 \cdot 0.001\,\text{cm/s} \cdot \left(2.48\,\text{m}^2 - 2.44\,\text{m}^2\right)}{1.01\,\text{m}^3\text{/s}}\right)}$$

6.9) Radius of Well based on Discharge in Unconfined Aquifer with Base 10 Formula

Evaluate Formula

Formula

$$r_w = \frac{R_w}{10^{\frac{1.36 \cdot K_{soil} \cdot \left(H_i^2 - h_w^2\right)}{Q}}}$$

Example with Units

$$8.5999\,\text{m} = \frac{8.6\,\text{m}}{10^{\frac{1.36 \cdot 0.001\,\text{cm/s} \cdot \left(2.48\,\text{m}^2 - 2.44\,\text{m}^2\right)}{1.01\,\text{m}^3\text{/s}}}}$$

6.10) Radius of Well given Discharge and Length of Strainer Formula

Evaluate Formula

Formula

$$r_w = \frac{R_w}{10^{\frac{2.72 \cdot K_{soil} \cdot s_t \cdot \left(L + \left(\frac{s_t}{2}\right)\right)}{Q}}}$$

Example with Units

$$8.5989\,\text{m} = \frac{8.6\,\text{m}}{10^{\frac{2.72 \cdot 0.001\,\text{cm/s} \cdot 0.83\,\text{m} \cdot \left(2\,\text{m} + \left(\frac{0.83\,\text{m}}{2}\right)\right)}{1.01\,\text{m}^3\text{/s}}}}$$

Variables used in list of Unconfined Aquifer Formulas above

- A_{sec} Area of Cross Section *(Square Millimeter)*
- A_{xsec} Area of Cross Section in Enviro. Engin. *(Square Millimeter)*
- **b** Thickness of Aquifer *(Meter)*
- b_w Aquifer Thickness *(Meter)*
- **D** Diameter for Unconfined Aquifer *(Meter)*
- D_p Diameter of Particle *(Meter)*
- **h''** Depth of Water in Well given Discharge *(Meter)*
- **H** Thickness of Unconfined Aquifer *(Meter)*
- h_1 Depth of Water 1 *(Meter)*
- h_2 Depth of Water 2 *(Meter)*
- $h_{d'}$ Depth of Water in Well given Drawdown *(Meter)*
- H_i Initial Aquifer Thickness *(Meter)*
- h_w Depth of Water *(Meter)*
- h_{well} Depth of Water in Well *(Meter)*
- **i** Hydraulic Gradient
- i_e Hydraulic Gradient in Envi. Engi.
- **k'** Coefficient of Permeability given Rate of Flow *(Centimeter per Second)*
- **K''** Coefficient of Permeability given Flow Velocity *(Centimeter per Second)*
- K_{dw} Coefficient of Permeability at Drawdown *(Centimeter per Second)*
- K_s Standard Coefficient of Permeability at 20°C
- K_{soil} Coefficient of Permeability of Soil Particle *(Centimeter per Second)*
- K_w Coefficient of Permeability *(Centimeter per Second)*
- K_{WH} Coefficient of Permeability in Well Hydraulics *(Centimeter per Second)*
- **L** Length of Strainer *(Meter)*
- l_{st} Strainer Length *(Meter)*
- **Q** Discharge *(Cubic Meter per Second)*

Constants, Functions, Measurements used in list of Unconfined Aquifer Formulas above

- constant(s): **pi**, 3.14159265358979323846264338327950288 *Archimedes' constant*
- constant(s): **e**, 2.71828182845904523536028747135266249 *Napier's constant*
- Functions: **exp**, exp(Number) *n an exponential function, the value of the function changes by a constant factor for every unit change in the independent variable.*
- Functions: **log**, log(Base, Number) *Logarithmic function is an inverse function to exponentiation.*
- Functions: **sqrt**, sqrt(Number) *A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.*
- Measurement: **Length** in Meter (m) *Length Unit Conversion*
- Measurement: **Area** in Square Millimeter (mm²) *Area Unit Conversion*
- Measurement: **Speed** in Centimeter per Second (cm/s), Meter per Second (m/s) *Speed Unit Conversion*
- Measurement: **Volumetric Flow Rate** in Cubic Meter per Second (m³/s) *Volumetric Flow Rate Unit Conversion*
- Measurement: **Dynamic Viscosity** in Poise (P) *Dynamic Viscosity Unit Conversion*
- Measurement: **Mass Concentration** in Kilogram per Cubic Meter (kg/m³) *Mass Concentration Unit Conversion*

- **r** Radius of Well *(Meter)*
- r_1 Radial Distance at Observation Well 1 *(Meter)*
- R_1 Radial Distance 1 *(Meter)*
- r_2 Radial Distance at Observation Well 2 *(Meter)*
- R_2 Radial Distance at Well 2 *(Meter)*
- r_w Radius of Well given Discharge *(Meter)*
- R_w Radius of Influence *(Meter)*
- r'' Radius of Well in Well Hydraulics *(Meter)*
- $r1'$ Radial Distance at Well 1 *(Meter)*
- $r1''$ Observation Well 1 Radial Distance *(Meter)*
- s_t Total Drawdown *(Meter)*
- S_{tw} Total Drawdown in Well *(Meter)*
- V_{aq} Rate of Flow in Aquifer *(Cubic Meter per Second)*
- V_f Flow Velocity for Unconfined Aquifer *(Meter per Second)*
- V_{fwh} Flow Velocity *(Meter per Second)*
- V_{uaq} Rate of Flow in Unconfined Aquifer *(Cubic Meter per Second)*
- $V_{wh'}$ Velocity of Flow *(Meter per Second)*
- $\mu_{viscosity}$ Dynamic Viscosity for Aquifer *(Poise)*
- ρ Mass Density *(Kilogram per Cubic Meter)*

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