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Q = Volume of water collected
 k = Coefficient of permeability
 i = Hydraulic gradient, h/L
 A = Cross-sectional area of sample
 t = Duration of time for collection of water
 L = Length of the sample.
For granular soil, 31. 2
 $K=1/e$ For Horizontal

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flow 32. $3 K = e / 1 + e$

For vertical flow 33.

GEOTECHNICAL AND FOUNDATION

FORMULA SHEET

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Geotechnical

engineering, also

known as geotechnics,

is the application of

scientific methods and

engineering principles

to the acquisition,

interpretation, and use

of knowledge of

materials of the Earth's

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crust and earth materials for the solution of engineering problems and the design of engineering works. It is the applied science of predicting the behavior of the Earth, its various ...

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void ratio. n =
porosity. w =
moisture content,
water content. s =
specific gravity of any
substance. G =

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Formulas
specific gravity of solids. S_s = degree of saturation. V_s = volume of soil mass.

Geotechnical Engineering | MATHalino

Phase problems are very important in soil engineering. Below are given most commonly used formulas to solve problems related to weight volume calculations. The notations used in these

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formulas are as follows, γ_b = Bulk density of soil mass γ_w = Density of water γ_{sat} = Saturated density γ_{sub} = Submerged density $G = [...]$

10+ FORMULAS TO SOLVE GEO TECHNICAL PROBLEMS ON PHASE ...

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Formula Edition, offers geotechnical, civil and structural engineers a concise, easy-to-understand approach to selecting the right formula and solving even most difficult calculations in geotechnical engineering. A "quick look up guide", this book places formulas and calculations at the reader's finger tips.

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q = heat transferred
per unit time (W,
Btu/hr) A = heat

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transfer area of the surface (m^2 , ft^2)
 h_c = convective heat transfer coefficient of the process ($W/(m^2 K)$ or $W/(m^2 \circ C)$, $Btu/(ft^2 h \dots$)

Everyday Formulas That All Engineering Students Use

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**CIVIL FORMULAS -
civil engineering**

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Formula

Engineering Formula

Sheet. Probability.

Conditional Probability.

Binomial Probability

(order doesn't matter)

P_k (= binomial

probability of k

successes in n trials p

= probability of a

success - q =

probability of failure k

= number of successes

n = number of trials.

Independent Events. P

(A and B and C) = P_A .

Engineering Formula

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offers geotechnical,
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Cu = Uniformity

Coefficient; gives the range of grain sizes in a given sample. Higher Cu means well graded.

Cz = Coefficient of Curvature is a measure of the smoothness of the gradation curve. Usually less than 3.

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**Civil Engineering
Formula Chart,
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$$n = e / (1 + e) \rightarrow (a) \ 1/e = (1/n) - 1 = (1 - n)/n. \ e = n / (1 - n) \rightarrow (b)$$

In equations (a) and (b), the porosity should be expressed as a ratio and not percentage. 3. Degree of saturation.

The degree of saturation is the ratio of the volume of water to the volume of voids. It is denoted by S .

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