

Check List

Pg 140

— NO. 2 PG 2: 29/06/2018

Equation: Relationship
LAW,
BETWEEN VARIABLES, CONSTANTS,
AND THEIR FORMULAS.

L^2 The source can be an act of imaginative thinking, an educated guess, or a carefully constructed working hypothesis based on hundreds of precise experiments - The next step is to test it.

Theory: \rightarrow When a hypothesis leads to the design of experiments which would earlier have been meaningless or never thought of, and when these experiments in turn lead to a new hypothesis which can similarly be tested, then we may speak of a "theory".

"All scientific 'principles' are really theories, ~~and~~ for the scientist is always ready to modify his cherished concepts

Q1: "IF NEW EXPERIMENTAL EVIDENCE TURNS UP, OR EVEN IF ANOTHER CONCEPT WILL EXPLAIN THE EVIDENCE EQUALLY WELL?"

LAW: Widely accepted theory, which has been proved thus conforms a law is generally respected to be true, passing thus resisting several tests, for handling of several

Dimensional quantities: $[L]$ = length; $[M]$ = mass; $[T]$ = time

SYSTEMS: M.K.S: Meter-kilo-second

FPS: foot - pound - second

C.G.S. = CENTIMETER-GRAM-SECOND

- ↳ Absolute (MKS-FPS): DEFINED IN A WAY THAT HAS NOTHING

DIFFERENCE BETWEEN PG & WITH LOCAL VARIATIONS IN EARTH'S GRAVITATIONAL FIEL.

It is mass (inertia); not weight, that is used.

Questions: 1. What is the difference between a strong and a weak acid?

1-2 $x = \text{Return}$

WE COULD USE THE SAME KIND OF EX. 2: $1010 - 5 \text{ P/M}$

EQUATION TO FIND THE MASS :

WHERE α RELATES HOW

*MUCH BETTER FITS IN LAM

$$1-3 \quad h^2 = c^2 + c^2$$

$$[L] = [L^0] + [L^1]$$

$$1.4 \quad s = \frac{1}{2}(a+b+d) \sqrt{\frac{1}{2}[3L] \left(\frac{1}{2}[3W] + L \right) \left(\frac{1}{2}[3W] + W \right) \left(\frac{1}{2}[3L] - W \right)}$$

$$= \sqrt{\frac{1}{2} \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix}} = \sqrt{\frac{1}{2} \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix}} = \sqrt{\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}}$$

$$= \frac{\sqrt{0.975}}{[L]} = \frac{[0.433012702]}{[L]} = \frac{[L]}{[L]} < 1$$

→ The equation is

Don't stop in the middle

12. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Find the area of the region

Fortified (w/ B₁₂).

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