Chapter A

Units and Dimension

Blinn College - Physics 2325 - Terry Honan

A.1 - Introduction

When we give a value to some thing. Not darknow, time, make or velocity, we must specify the appropriate units. Suppose we wanted to add two lengths in different units, for example 2 m +3 ft. Clearly, since the units are different, we cannot just add the numbers but the expression does make sease; we could first convert ft to m (or m to ft) and then combine the two numbers.

Suppose instead we were asked to add 2 m = 3 s. This is a meaningless expension, we cannot add a length to a time. In the first case we added two quantities with different units but the same dimensions, two lengths, and the expression made sense. The second case consists of adding quantities of different units and different dimensions, a length and a time; this is meaningless and the expression is considered incorrect.

A.2 - Dimensional Analysis

The three fundamental dimensions are length L, mass M and time T. To give the dimension of a variable we use square brackets. For example, if s is some distance then it is dimensionally a length, and we write: |x| = L. A velocity is length per time, so if s is a velocity we would write |y| = L/T.

If two quantities are equal they must be dimensionally equal. Moreover, as illustrated previously, if we add two quantities they must be dimensionally the same. If $\alpha + \beta = \gamma$ is a correct expression then it must follow that the three variables have the same dimension.

It is also the case that the dimension of the product of two variables is the product of their dimensions:

$$0 = 40 = 0 = 0.00$$

A dimensionless quantity is some number, like κ , 2 or $\sqrt{5}$, that would be expressed without units. If κ is dimensionless we write $|\kappa| = 1$, since nealitylying by a dimensionless quantity doesn't change the dimension of a quantity.

The condition that our expressions must be dimensionally correct puts a constraint on the final form of our expressions. In fact in many cases dimensional analysis will uniquely determine our expressions up to mustiplicative dimensionaless constants. Suppose one is trying to recall an expression for the surface area of a sphere in terms of its radius. An area A is dimensionally a length squared and a radius r is a length. It follows that the expression for the area in terms of the radius must have the general form:

$$[A] = L^2$$
 and $[r] = L \implies A = \kappa r^2$ where $[\kappa] = 1$.

In the case the dimensionless constant is $\kappa = 4 \ \sigma$.

Example A.1 - Dimensional Analysis

As an example of this suppose we want to find an expression for a distance |A| = L in terms of an acceleration $|a| = L/T^2$ and a speed |a| = L/T. We can choose a general form of this expression as:

$$x = x \alpha^m x^n$$
 where $\{x\} = 1$.

Solution

We can solve for m and n using dimensional analysis by instifting the expression is dimensionally correct.

$$\{x\} = \{x\} \{x\}^m \{x\}^m \implies L = 1 \cdot (L \cdot T^{-1})^m (L \cdot T^{-1})^m = L^m T^{-1} \approx L^m T^{-n}$$

 $\implies L^1 T^0 = L^{m-n} \cdot T^{-1m-n}$

For the expression to be dimensionally correct each side of the equation must have the same number of length dimensions and the same number of time dimensions. This gives us two linear equations for our two unknowns m and n.

$$n = m + n$$
 and $0 = -2 m - n$

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