

Analysis

Analysis means to take apart again,
that is, once it has been synthesized,
it is once again taken apart
and the relationship between each component
is examined, the properties of each component
are also examined and the forces
of composition are determined.

ana lysis - ανα λυσις – from the Greek, to dissociate or loosen . .

The refinement of a design is possible by means of analysis.
Each substance, each form, the motions and velocities,
the forces within and between each portion
can all be reconsidered by taking apart
and even reposturing the members with respect to one another,
but a far more fundamental process must precede this!
The members which will be composed must be selected.
The pattern of the relationship must be determined.
This is synthesis, composition, design!
It is even able to be called invention, innovation or discovery.

An idea is the ingredient relationship
between member portions of a composition, a design
or synthesis or the pattern of relationships.
A concept is a system of ideas.

When this is asserted,
it does not mean that all users of the language mean this
when they use the word.
It means that in the effort to make words
have a consistent co-existence they can usefully mean this
and they mean this in this context here,
the dissertation you are reading.

Analysis

An invention involves either an idea or a concept.

An invention is a new relationship between the ingredients of the invention which would serve a purpose, a new array of ingredients, a new extent of relationship, etc., but it must be related to some function.

Analysis often involves the value giving process when the worth of a design is determined.