

their motion being of such a Velocity impressed from the Ambient on the two extreme Particles 1 and 8. First, if by any external power on the two extremes 1 and 8, they be removed further asunder, as to CD, then shall all the Vibrative Particles be proportionably extended, and the number of Vibrations, and consequently of occurrences be reciprocally diminished, and consequently their endeavour of receding from each other be reciprocally diminished also. For supposing this second Dimension of Length be to the first as 3 to 2, the length of the Vibrations, and consequently of occurrences, be reciprocally diminished. For whereas I supposed 1000000 in a second of the former, here can be but 666666 in this, and consequently the Spring inward must be in proportion to the Extension beyond its natural length.

Secondly, if by any external force the extreme particles be removed a third part nearer together than (the external natural force being alway the same both in this and the former instance, which is the balance to it in its natural state) the length of the Vibrations shall be proportionably diminished, and the number of them, and consequently of the occurrences be reciprocally augmented, and instead of 1000000, there shall be 1500000.

Having

