phenomena of gravitation, &c.:* and those agencies which operate among the different constituent molecules, of which all bodies are composed; and which are denominated molecular, or polarizing forces, &c. Of each of these subordinate agencies, we shall in the first place endeavour to convey some idea to the general reader.

* Many objections have been offered to the term vis inertiæ adopted by Newton. Indeed, to speak of mere inertia, or inactivity, as a force, is obviously absurd. We have always agreed with those who think that the term inertia has been unfortunately chosen; since inertia expresses only one quality, as it were, of that which is attracted, or which reacts, in nature. But, we fully acquiesce in the opinion, that whatever resists attraction or reacts, is as appropriately named a force, in a certain sense of that term, as that which attracts or acts; and such resistance is, in all instances, virtually considered as a force by the mathematician, however he may choose to designate it. Hence, for the sake of analogy with what follows, we have adopted the supposition of two antagonist forces, viz. inertia, (for want of a better name), and attraction; which we have denominated the forces of gravitation.