

The Microscopic and  
Macroscopic Structure  
of  
Matter and Energy



Cyril Edwards

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THERE are two orders of existence, the macroscopic and microscopic: the microscopic is not known immediately, and, in its summation, is known to our senses as macroscopic phenomena; what it, the microscopic, is cannot be known, or exist, in the macroscopic sense; any hypothesis as to its nature is true, and exists, if it accounts for and does not disagree with macroscopic facts: such hypotheses must be known in terms of macroscopic observation, for that conditions our every way of observation and reasoning.

Phenomena have been reduced now to manifestations of matter and energy; matter and energy are reduced now to wave and particle mechanics. Matter and energy are transferable to some extent the one to the other, and are, in microscopic fact, or hypothesis, various manifestations of a common factor, the possibility of causing relative movement, that is, the property of moving and being moved. Microscopically, what moves relative to what is a non-existent problem; macroscopically, relative movement is known, and measured, by observation of the relative movements of some gross aggregate. Any hypothesis as to microscopic movement is in terms of macroscopic experience, which is of the order of wave or particle movements: moreover, grossly and sensually, waves are made up of moving and discrete particles.

It is hypothecated, therefore, that matter and energy, that is, their representative dynamic fields of force, are made up of the relative movement of nodes of potential relative movement, these nodes being made up themselves of secondary nodes of potential relative movement, and so on indefinitely, any node being a kinematic statistical model of geometrical points recessing from a centre or node, which centre may be moving. A periodical radiation of such complex (and also radiating) nodes from a moving centre, in a plane vertical to the line of its movement, would create a wave form of field of potential alteration of relative movement.

This hypothetical kinematic statistical model of a complex ultimate unit, the geometrical analysis of which has been developed in the macroscopic order,<sup>1</sup> removes the confusing and overlapping dualities, matter and energy, waves and particles, discontinuity and continuity,<sup>2</sup> and embraces the phenomena of indeterminacy.



<sup>1</sup> Kinematic statistical models of the recessing astronomical universe.

<sup>2</sup> The infinite number of diminishing nodes that form a primary node fill subliminal microscopic space, and are known macroscopically as measurable and discrete summations.

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