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different and some the same, whenever a fresh individual or magnet is brought into being.

All this can be said concerning the old process of magnetisation—the process as it was doubtless familiar to the unknown discoverer of the lodestone, to the ancient users of the mariner's compass, and to Dr Gilbert of Colchester, the discoverer of the magnetised condition of the Earth.

But within the nineteenth century a fresh process of magnetisation has been discovered, and this new or electrical process is no longer obviously dependent on the existence of antecedent magnetism, but seems at first sight to be a property freshly or spontaneously generated, as it were. The process was discovered as the result of setting electricity into motion. So long as electricity was studied in its condition at rest on charged conductors, as in the old science of electrostatics or frictional electricity, it possessed no magnetic properties whatever, nor did it encroach on the magnetic domain :