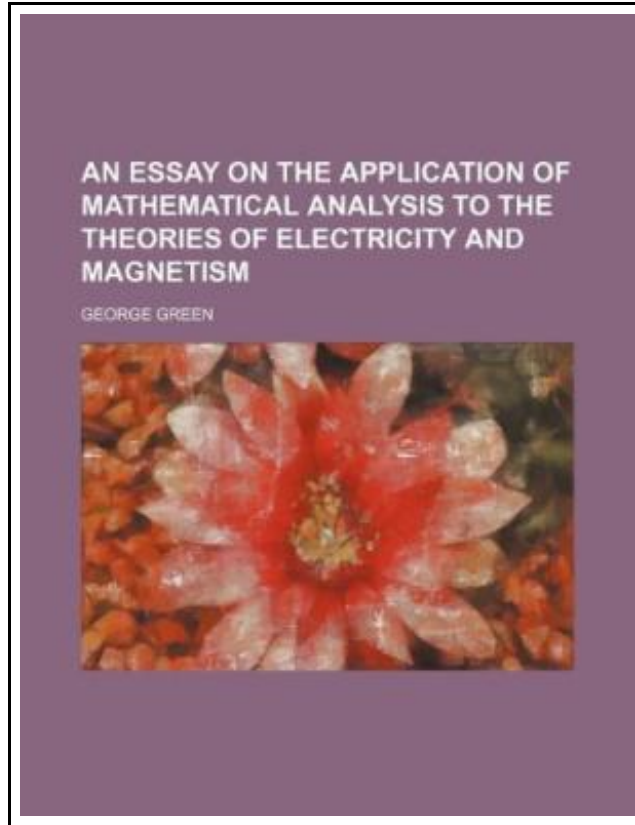# An Essay on the Application of Mathematical Analysis to the Theories of Electricity and Magnetism

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AN ESSAY ON THE APPLICATION OF MATHEMATICAL ANALYSIS TO THE THEORIES OF ELECTRICITY AND MAGNETISM

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 9.7in. x 7.6in. x 0.2in.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1828 Excerpt: . . . on the surface in question. Suppose now, all the interior bodies to reduce themselves to a single point P, in which a unit of electricity is concentrated, and f to be the distance Pp: the potential function arising from P will be-L, and hence BL. f r being, as before, the distance between p and the centre O of the shell. Let now b represent the distance OP, and e the angle POp, then will fb3--2br. cos or. From which equation we deduce successively, df 6cog 8 dB 2 if --2S 26. cos. fl Making ra in this, and in the value of B before given, in order to obtain those which belong to the surface, there results This substituted in the general equation written above, there arises 6-- i--r 4raft If P is supposed to approach infinitely near to the surface, so that Ja--; being an infinitely small quantity, this would become In the same way, by the aid of the equation between A and p, the density of the electric fluid, induced on the surface of a sphere whose radius is a, when the electrified point P is exterior to it, is found to be --5 P ATraf, supposing the sphere to communicate, by means of an infinitely fine wire, with the earth, at so great a distance, that we might neglect the influence of the electricity induced upon it by the action of P. If the distance of P from the surface, be...

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