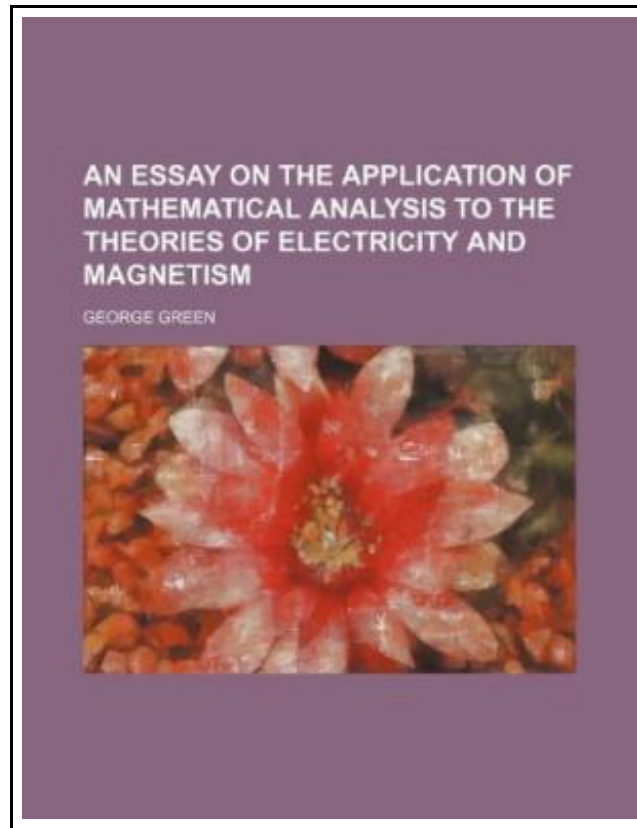


An Essay on the Application of Mathematical Analysis to the Theories of Electricity and Magnetism



Filesize: 7.85 MB

Reviews

This is actually the very best book i actually have read till now. This is for all those who statte that there was not a worth studying. Its been written in an remarkably straightforward way which is merely following i finished reading this publication by which in fact altered me, modify the way i believe.

(Mr. Jeramy Leuschke IV)

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

DOWNLOAD



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 $\frac{1}{f}$, and hence $\frac{1}{f}$ 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 $\frac{1}{f^3} = \frac{1}{b^3} - \frac{2b}{r^3} \cos \theta$ or. From which equation we deduce successively, $\frac{df}{f^3} = \frac{db}{b^3} + \frac{2b}{r^3} \cos \theta$. 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 $6 - \frac{1}{r} + \frac{4}{r^3}$ If P is supposed to approach infinitely near to the surface, so that $\frac{1}{r} \rightarrow 0$; 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 $-\frac{5}{2} \frac{P}{A^2 r^2}$, 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...



[Read An Essay on the Application of Mathematical Analysis to the Theories of Electricity and Magnetism Online](#)



[Download PDF An Essay on the Application of Mathematical Analysis to the Theories of Electricity and Magnetism](#)

Related Kindle Books



The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up

B&H Kids. Hardcover. Book Condition: New. Cory Jones (illustrator). Hardcover. 32 pages. Dimensions: 9.1in. x 7.2in. x 0.3in.Oh sure, well all heard the story of Jonah and the Whale a hundred times. But have we...

[Save ePub »](#)



Animalogy: Animal Analogies

Sylvan Dell Publishing. Paperback. Book Condition: New. Cathy Morrison (illustrator). Paperback. 32 pages. Dimensions: 9.8in. x 8.4in. x 0.4in.Compare and contrast different animals through predictable, rhyming analogies. Find the similarities between even the most incompatible...

[Save ePub »](#)



Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers (Paperback)

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download...

[Save ePub »](#)



Yearbook Volume 15

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 58 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.This historic book may have numerous typos and missing text. Purchasers can usually download a free...

[Save ePub »](#)



Molly on the Shore, BFMS 1 Study score

Petrucchi Library Press. Paperback. Book Condition: New. Paperback. 26 pages. Dimensions: 9.7in. x 6.9in. x 0.3in.Percy Grainger, like his contemporary Bela Bartok, was intensely interested in folk music and became a member of the English...

[Save ePub »](#)