

# Treatise on Natural Philosophy Volume 1, PT. 2

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## Reviews

Thorough information! Its such a excellent read. It is really simplistic but unexpected situations within the fifty percent of your pdf. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Johnathon Moore)

## TREATISE ON NATURAL PHILOSOPHY VOLUME 1, PT. 2



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 a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1883 Excerpt: .method of Fourier, he solves (12), subject to the surface equation (18), for the particular case of a rectangular prism. (A.) For this M. de St Venant finds a general integral of the boundary condition, viewed as a differential equation in terms of the two variables x, y, thus: --Multiplying (18) by ds, and replacing ainfyds and cosfd# by their values dy and--dx, In this the first two terms constitute a complete differential of a function of x and y, independent variables; because y satisfies (12). Thus, denoting this function by u, we have---and =--(20) dx dy dy dx and (19) becomes du-rd (x + if) = 0, which requires that u-t (x1 + y) = C (21), for every point in the boundary. It is to be remarked that, because d dy d dy dx dy dy dx we have, from (20), + = 0 (22); or u also, as y, fulfils the equation v M = 0. A function, algebraically homogeneous as to x, y, which satisfies this equation is Appendix B. (a) a spherical harmonic independent of z. Hence a homogeneous solution of integral degree i can only be the part of Appendix B. (39) not containing s. This is Ci + G r, where Appendix B. (26) = x + vy, and ij = a;--vy, v standing for J-1; or, if we change the constants so that the constants may be real, A(x + vyy+(x-vy)) -vB(x + vyy-(x-vy) (23), or,...

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