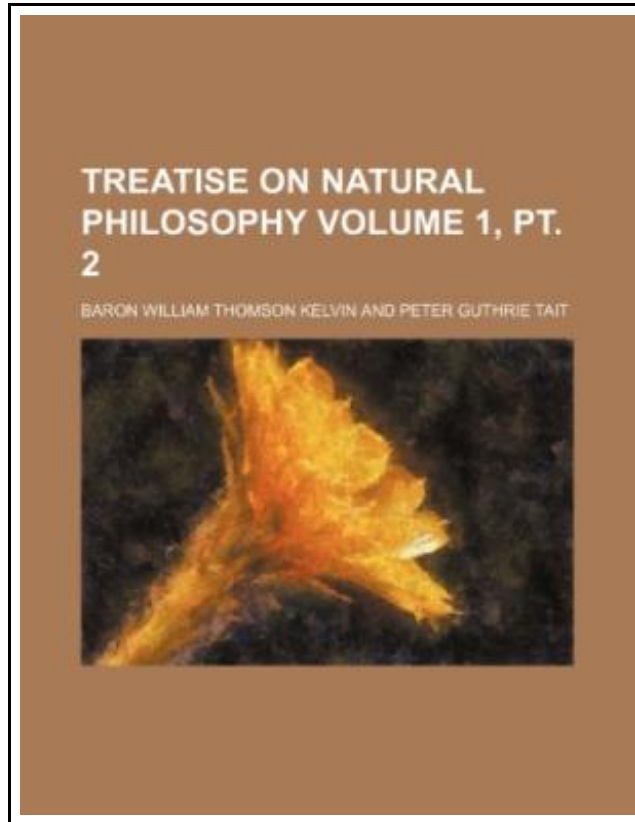


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### ***Reviews***

*Undoubtedly, this is the greatest job by any author. It is actually filled with wisdom and knowledge I am quickly could get a pleasure of reading a written book.*

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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  $\sin \theta$  and  $\cos \theta$  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 --- $(20) \frac{dx}{dy} \frac{dy}{dx}$  and (19) becomes  $du - rd(x + iy) = 0$ , which requires that  $u - t(x + iy) = C$  (21), for every point in the boundary. It is to be remarked that, because  $\frac{d}{dy} \frac{d}{dy} \frac{dx}{dy} \frac{dy}{dx}$  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  $C_i + G r$ , 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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