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## The Messenger of Mathematics Volume 21, No. 1 - V. 23, No. 12

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By William Allen Whitworth

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. 1879 Excerpt: . energy experienced by the whole string during the passage of the wave over it will be  $W-H = (\frac{1}{2} \rho v^2) dx + V dx + dx, . K A$ . whence we have at once verifying the statement made above. 9. When this wave of extension reaches C it will be succeeded by a wave of contraction down the string corresponding to velocity  $3 V$ , and thereafter by a series of wormlike movements whose velocities, beginning with the first, are  $V, 2V, 3 V, 4V, c$ . Suppose, for instance, that a wave of extension has just reached C, the velocity corresponding to it being  $n V$ , it will be followed by a wave of contraction corresponding to  $(n+1) V$ . For let (fig. 11) the unstretched lengths of CP, PQ be  $x, dx$ , the stresses in PQ before and after the downward wave being numerically  $g(l-x)$  and...



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