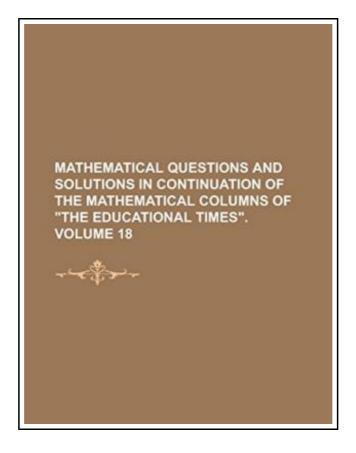
# Mathematical Questions and Solutions in Continuation of the Mathematical Columns of The Educational Times Volume 18



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## Reviews

This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf. (Alfreda Bradtke)

# MATHEMATICAL QUESTIONS AND SOLUTIONS IN CONTINUATION OF THE MATHEMATICAL COLUMNS OF THE EDUCATIONAL TIMES VOLUME 18



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 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 scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1873 edition. Excerpt: . . . probable; hence the mean range is 3817. (Proposed by M. Collins, B. A. )--A body will describe a circle by a force v2 rl directed towards its centre. Hence prove that if a circle be drawn round any other interior point C as centre of attraction, the force of attraction towards C must vary as PC-r (the cube of the distance of P from the polar of C); P being any position of the point moving in the circumference; and show that this last property is true for all conic sections. Solution by J. J. Walker, M. A. 1. Let CT be the perpendicular on the tangent at P, and O the centre of the circle. If f be the force along PC, its component along PO must be v2 CT 1 CP equal to--; that is, fx--oc----, or fee cp op. But in the circle CT is to the perpendicular from P on the polar of C as CO to radius; therefore, and c. 2. Let K be the centre of a conic, and KL, KM the semi-diameters conjugate to the directions KC, KP. If O be the centre of curvature at CP CP P, from above, fx Qp cc CT3 gM3-But and is readily shown that the perpendicular from P on the polar of C, a fixed point, is proportional to CT. KM; thus is proved the last elegant extension of the theorem, which is due to the late Sir Wm. Rowan...

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