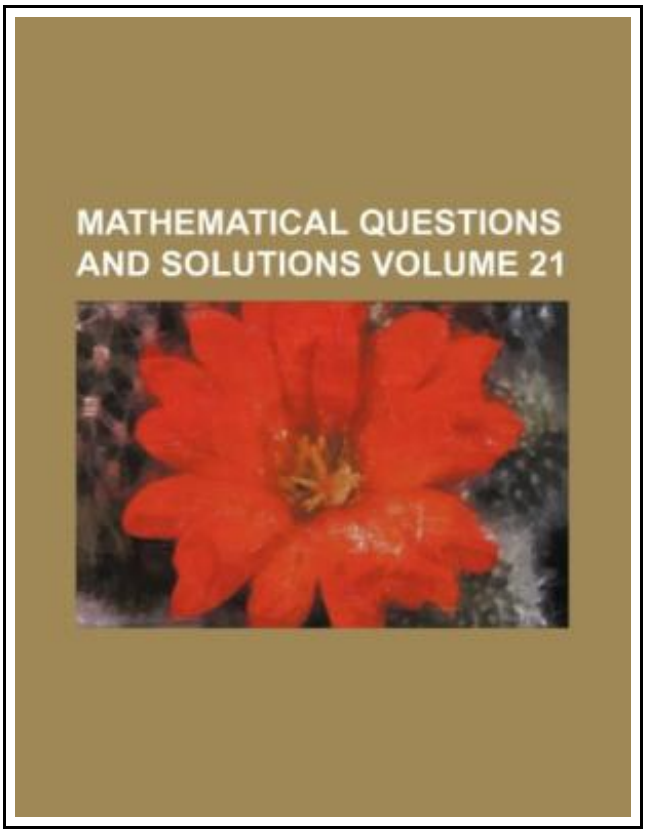
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1874 Excerpt: .M.A.)--A triangular frame ABC without weight is kept in equilibrium by three forces at right angles to the sides whose lines of action meet in a point L. O is the centre of the circle ABC, LO is produced to L so that OL = LO; prove that the stresses at A, B, C will be perpendicular and proportional to L A, L B, L/C. Solution iy John C. Malet, M.A. From L draw the perpendiculars A- LF, LG, LH, and from L draw the perpendiculars L H and L G , on the sides of the frame. Now if P, Q, E be the three forces, since they act perpendicularly to the sides of the triangle they must be proportional to them; therefore P: Q: E-BC: CA: AB. (1.) Let the stress at A=X, and let it act along the line A AA ; then for the equilibrium of the bar AC, taking moments about C, we have X.AC, sin A AC = Q.GC and for AB, X. AB. sin A AC = R.HB, from which by (1) we have sin A AC GC--G A = cos CAL sin A AC HB H A cos BAL therefore AA must be perpendicular to AL ; similarly the stresses at B and C are perpendicular to BL , CI/, which proves the first part of the question. Let Y and Z be the stresses at B and 0. We have now the bar AB in equilibrium under...

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