



Military Examinations. Mathematical Examination Papers, Set for Entrance to R.M.A., Woolwich, with Answers, by W.F. Austin (Paperback)

By Woolwich Roy Military Acad

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. 1880 Excerpt: .known as the parallelogram of velocities. A man fires at an object moving with a given velocity in a given direction. The velocity of the ball is such that it would have hit the object, if at rest, in one second. How far ahead of its apparent position must he aim to hit the object? 10. Show that the effect of centrifugal force is to lessen the weight of a body m at the latitude X by $r = \frac{v^2}{g} \sin X$, approximately, the $2v$ earth being assumed to be a sphere whose diameter is 8000 miles. 11. Two weights, $3P$ and P , move on two planes each inclined to the horizon at an angle of 45° , and are connected by a fine string which passes over their common vertex. Find the acceleration of their centre of gravity. What is its locus? 12. Explain the terms potential energy, kinetic energy. Given...



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