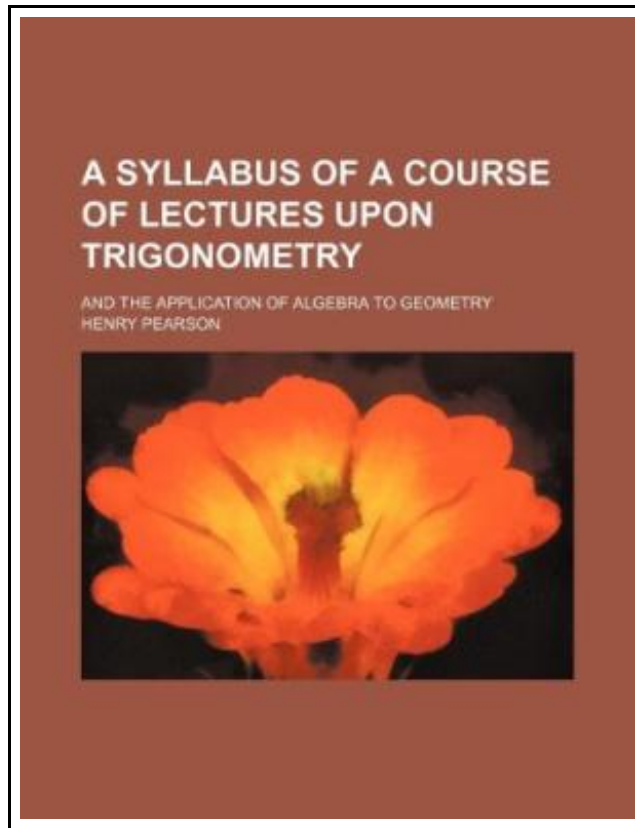


A Syllabus of a Course of Lectures Upon Trigonometry; And the Application of Algebra to Geometry



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Extremely helpful for all type of folks. It generally is not going to expense a lot of. I found out this book from my dad and i advised this book to find out.

(Melany Goyette)

A SYLLABUS OF A COURSE OF LECTURES UPON TRIGONOMETRY; AND THE APPLICATION OF ALGEBRA TO GEOMETRY



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. 1833 Excerpt: .is commonly given. 52. The equation $ay^2 + a^2y + cr^2 + \dots = 0$ (6), (suppressing the accents of r and y), may be transformed in all cases, in such a manner, that the term involving wy may be exterminated, by changing the direction of the rectangular axes (without altering the origin) through an angle θ , such that $\tan \theta = \frac{a-c}{a^2}$. The transformed equation becomes (suppressing the accents of x and y), $ay + c\sqrt{a^2 - c^2} + \dots = 0$ (c), or $ia + c + A/(a-c)^2 + 62Jy!! + lfa + C - v/(a-c)^2 + 6aa^2 + \dots = 0$ (d). 53. If $4ac$ be greater than b^2 , the coefficients d and c must have the same algebraical sign, whether $+$ or $-$: if $4ac$ be less than b^2 , the coefficients a and c must have different algebraical signs, whether $+$ or $-$: if $4ac = b^2$, we have $c = 0$: but this is the case excepted above (Art. 50.), where the coefficients of the simple powers of x and y have not disappeared simultaneously; if $a = c$ and also $b = 0$, the value of θ is indeterminate, and the general equation becomes that of a circle. 54. If the two transformations in Arts. 50. and 52. are made simultaneously, the values of θ , a and $\sqrt{a^2 - c^2}$ which result, will be the same as those determined: if the two transformations are effected in a contrary order, the value of θ will be the same as before, but the co-ordinates $(a, \sqrt{a^2 - c^2})$ of the new origin being referred to the new and not to the old axes, will...



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