



## Calcolo Dei Quaternioni Di W.R. Hamilton E Sua Relazione Col Metodo Delle Equipollenze; Memoria . Inserita Nel Tomo I Della Seconda Serie Delle Memorie Della Societa Italiana Delle Scienze Residente in Modena

By Giusto Bellavitis

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. 1858 Excerpt: .area swept by the radius vector is  $A = \int \sin \theta r^2 d\theta$  or if  $a = r \cos \theta$  This is the area of a portion of the surface exterior to the curve, contained between the curve and the limiting positions of the radius vector. To find a portion of the inner area we need only transfer the origin to some point on or within the curve, and proceed as before. Suppose the origin to lie on  $a$ , at a distance  $m \tan \alpha$  from the centre. The finite area is  $A = \int \sin \theta r^2 d\theta - m \sin \theta r$ . (30) In formulae (28) and (30), put  $r = \cos \theta$  and  $m = \cos \theta$ , and take  $\theta$  and  $0$  for the limits. Then if  $A$  be the elliptic area (doubled) is  $A = \int \cos \theta d\theta - \cos \theta \sin \theta$ , (31) and the hyperbolic area (doubled) is  $A = \int \cos \theta d\theta - \cos \theta \sin \theta$ . (32) These areas are those of segments...



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