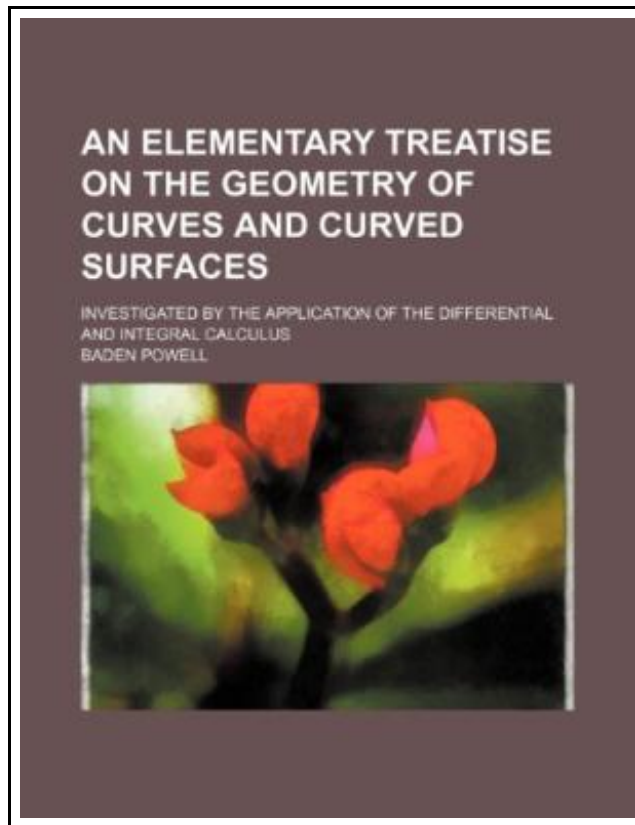# An Elementary Treatise on the Geometry of Curves and Curved Surfaces; Investigated by the Application of the Differential and Integral Calculus

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AN ELEMENTARY TREATISE ON THE GEOMETRY OF CURVES AND CURVED SURFACES; INVESTIGATED BY THE APPLICATION OF THE DIFFERENTIAL AND INTEGRAL CALCULUS

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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. 1830 Excerpt: .applications of this spiral, see Whewell s Dynamics, p. 44. Also for its optical property of being its own caustic, see Coddington s Optics, p. 20 and 87 APPLICATIONS OF THE DIFFERENTIAL AND INTEGRAL CALCULUS TO THE GEOMETRY OF CURVED SURFACES AND SOLIDS. APPLICATIONS OF THE DIFFERENTIAL AND INTEGRAL CALCULUS TO THE GEOMETRY OF SURFACES AND SOLIDS OF REVOLUTION. We will commence the investigation of surfaces and solids by means of the application of the differential and integral calculus, with that which constitutes the simplest case, viz. a surface or solid generated by the revolution of a given plane curve about some given line in it, generally one of its axes, as the axis of revolution. We shall afterwards proceed to the more general views of the subject, which are obtained by considering curved surfaces as loci of three dimensions. THE SURFACE AND SOLID CONTENT OF THE CYLINDER, SPHERE, AND CONE. Lemma. An equilateral triangle being described about a circle, whose radius = a, let its altitude = h, side = c, Upon each of the sides let there be drawn perpendiculars from the centre; then, b = c. And by similar triangles, THE CYLINDER. SURFACE. In a right cylinder let b = radius of base, a = altitude. The equation of the side is, $y = b$ $dy = 0$ consequently the general formula Int. Calc. 68. $u = z$ f $2yV(dx^2 + dy^2)$ becomes, $u = P2irbdx$ v $u = 2vbx + C$; which, integrating between $x = 0$...

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