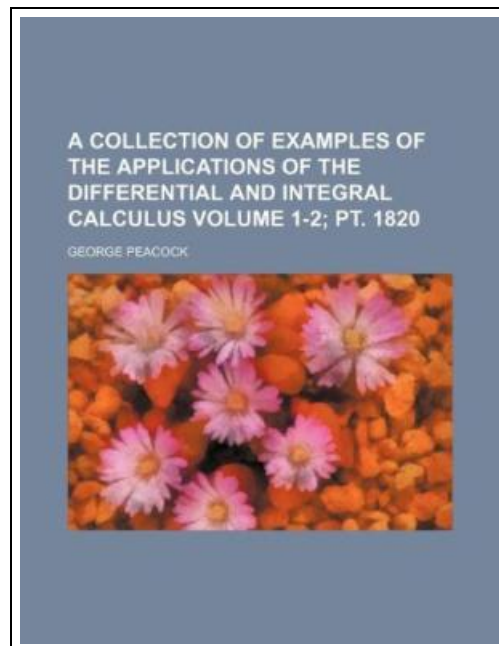


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1820 Excerpt: .The evolute of each semicycloid, is an equal semicycloid in a reversed position. If a series of equal cycloids be described, whose bases are in the same straight line, the curve which cuts them all at right angles, is an equal cycloid in a inverted position: this is one of the simplest cases of the problem of orthogonal trajectories f. If any curve whatever AB (Fig. 85.), whose tangents at A and B are at right angles to its rectangular co-ordinates AC and BC respectively, be evolved into the curve BA , beginning from B; if again, BA be evolved into the curve B A , beginning from A , and B A into B A , beginning from B t and so on continually: each successive evolute will approximate more and more to a common cycloid, whose These quadratures were discovered by John Bernoulli, in 1699, a century after the idea of this curve first occurred to Galileo: after enumerating the controversies to which this curve gave rise, and the many wonderful properties which it possessed, he proceeds thus: At vero non prius de palaestra discedere velle videtur, quam per integrum exactum sxculum omnia sua exuisset mvsteria, nobisque pandisset quicquid in extremis haberet recessibus suis. Prodit enim, ecce denuo, in scenam nobilis nostra curva, spectatoribus quasi cum agonizante hoc saeculo valedictura, ut tandem candide sistat infinitorum suorum segmentorum, aliorumque spatiorum quadraturaro, Johannis Bernoulli! Opera. Tom, I, p. 324, 390. f Johannis Bernoulli! Opera, Tom. II. p....



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