



An Elementary Course of Infinitesimal Calculus (Paperback)

By Sir Horace Lamb

Theclassics.us, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1902 edition. Excerpt: .as the sum or as the difference of two prisms or cylinders each having one end perpendicular to the length. We infer that in all cases the volume is equal to the area of the cross-section multiplied by the distance between the mass-centres of the two ends. Ex. The volume of the wedge-shaped solid cut off from a right circular cylinder by a plane through the centre of the base, making an angle a with the plane of the base, is $4 \int_0^a \sin^2 x \, dx - a \tan a = 0.8 \tan a$; cf. Art. 114, Ex. 1. The theorems of Pappus may be generalized in various ways; but it may be sufficient here to state the following extension of the second theorem. If a plane area, constant or continuously variable, move about in any manner in space, but so that consecutive positions of the plane...

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