The differential and integral calculus; containing differentiation, integration, development, series, differential equations, differences, summation, ... definite integrals,--with applications

Augustus de Morgan

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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. 1842 edition. Excerpt: ... Bat if £=0, or we ask for the curve in which the osculating surface cuts the plane of xy, we find for this curve the involute of the circular base, defined by S=acosD + a»sinu, jj=asiiic--av cosv (page 366). And it is obvious that the cylinder is the polar surface of the involute of the circle. In fact, the other evolutes (besides the circle) of the involute of a circle are all the screws which can be described upon a right cylinder having that circle for its base, and which meet the involute. The equation of the normal plane, and the game differentiated with respect to v, are--£a sin v+na cos v + £6=6»,--£acosv--qasin v=b. These equations jointly belong to the polar line: to find a point in the connecting curve of the polar lines we must annex the equation 2-a siu v---qa cos 0=0, or jj:f=tanr, whence the preceding equations become--a(+ij)=ft,1 t=bv, or +r)t=bi:at, f=6tan-'(i:£)-So that the locus of the centres of spherical.curvature is another screw, generated by the same helicoidal surface, but having a cylinder whose radius is 6: a. The two screws, however, are in opposite positions; for if in the first two equations we make £=0, thereby obtaining the equations of the curve in which the polar surface cuts the plane of (xy), we find that £ and; are the values of the coordinates of the involute of the circle whose radius is 6: a, with their signs changed. The polar surface is then the osculating surface of this new screw: and if b--a, the osculating and polar surfaces of the given screw are the same, the latter having only made a half revolution about the axis of z. For the coordinates of the centre of circular curvature, we 'find z'y„--aii cos v--a cos t, y'xu--x'y„=0,...

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