



The collected mathematical papers of Arthur Cayley.Vol. 9

By Arthur Cayley

University of Michigan Library. Hardcover. Book Condition: New. Hardcover. 648 pages. Dimensions: 9.0in. x 6.0in. x 1.6in. From the Proceedings of the London Mathematical Society, vol. v. (1873 1874), pp. 14 25. Read December 11, 1873. I HAVE constructed a model and drawings of the symmetrical form of Steiner's surface, viz. that wherein the four singular tangent planes form a regular tetrahedron, and consequently the three nodal lines (being the lines joining the mid-points of opposite edges) a system of rectangular axes at the centre of the tetrahedron. Before going into the analytical theory, I describe as follows the general form of the surface: take the tetrahedron, and inscribe in each face a circle (there will be, of course, two circles touching at the mid-point of each edge of the tetrahedron; each circle will contain, on its circumference at angular distances of 120° , three mid-points, and the lines joining these with the centre of the tetrahedron, produced beyond the centre, meet the opposite edges, and are in fact the before-mentioned lines joining the midpoints of opposite edges). Now truncate the tetrahedron by planes parallel to the faces so as to reduce the altitudes each to three-fourths of the original...



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