On Riemann s Theory of Algebraic Functions and Their Integrals; A Supplement to the Usual Treatises

By Felix Klein

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. 1893 Excerpt: .SojM, the constants a, can be so chosen that this expression has at each cross-cut the same modulus of periodicity as u. Then;/--Saii is a constant and we have the formula just given. Passing now from the potentials u to the functions u + iv, finite everywhere, suppose, for simplicity, that coordinates x, y, employed on the surface (6), are such that u and v arc connected by the equations du dv du dv dx dy dy dx Now let it, be an arbitrary potential, finite everywhere. Construct the corresponding vx; then tt, and v, are linearly independent. For if between -j and ti there were an equation Ojmj + biVy = const. with constant coefficients, this would entail the following equations: whence, by means of the given relations, the following contradictory result would be obtained: = 0 = 0 dx dy Further, let u2...

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