



## Proceedings of the London Mathematical Society Volume 24 (Paperback)

By London Mathematical Society

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: .the case of a simply-connected area, the nature of the three branch-points, so that the forms of  $\sqrt{z}$ ,  $\sqrt[3]{z}$ , will be given by  $\sqrt[3]{z} (0 + \sqrt{3}i, (0 + \sqrt{3}i)^2, (0 - \sqrt{3}i)^2)$ , where the indices  $m, n, p$  are determined by inspection, and where, of the constants  $a, b, c$ , two, but not more, may be infinity, in which case the corresponding factors are replaced by unity. Assuming for simplicity that  $Z$  does not become infinite at any of the branch-points, it follows that  $\text{Tit } 2m, = S_w, = 2-, = N, i i$  and  $S(-, so that Lastly, since the only irrationality that  $z$  contains is the square root of a qnartic function, the expression must have a square factor of degree  $N-2$ . This is equivalent to  $N-l$  equations of condition. Now, since the ratios only of, occur, the functions  $\sqrt[3]{z}, \sqrt[3]{z}, \sqrt[3]{z}...$$



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