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# Theory of Differential Equation.

By Andrew Russell Forsyth

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. 1902 Excerpt: . function of degree  $m-y$ , shall have  $m-y-8$  linearly independent regular integrals, is that  $JV$  shall be a product of the form  $QMD$ , where the indicial functions of,  $i$ ,  $D$  are of degrees  $5, 0, m-y-b$  respectively, and  $D$  is of order  $m-y-b$ . Is there any limitation upon the order of  $M_1$  (Cayley.) Ex. 5. Shew that an equation  $QD = 0$  has at least as many regular integrals as  $Z = 0$ , and not more than  $Q = 0$  and  $Z = 0$  together; and that, if all the integrals of  $D=0$  are regular, then  $QD=0$  has as many regular integrals as  $Q = 0$  and  $D = 0$  together. Hence (or otherwise) shew that, if an equation  $P=0$  has all its integrals regular, then  $P$  can be resolved into a product of operators, each of the first order and such that, equated to zero,...



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