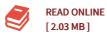# Theory of Differential Equations Volume 4; (Vol. V-VI) Partial Differential Equations. 1906

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: . the indicial function of N is the product of the indicial functions of T and 8; so that the indicial function of S, which gives all the regular integrals of N, is a factor of the indicial function of the original equation. The degree of the indicial function of S is equal to s, because S = 0 is an equation of order s of Fuchsian type; the degree of the indicial function of iV is m--n, where n is the characteristic index of N = 0. Hence s + k = m--n, that is, 8=m--n--k.m--n; so that (assuming for the moment that k may be either zero or greater than zero) an upper limit for the number of regular integrals which an equation can possess is given by m--n, where m is the order of the equation, and n is its characteristic index (supposed...

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