



## A Course in Mathematical Analysis Volume 1

By Edouard Goursat

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 138 pages. Dimensions: 9.6in. x 7.2in. x 0.5in. 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. 1904 edition. Excerpt: . . . and contain all the vertices. --Trans. a ruled surface, and the area of the section made by a plane parallel to the plane  $x = 0$  is given, by 94, by the integral where  $a, \beta, \gamma, \delta$  denote the derivatives of  $a, \beta, \gamma, \delta$  with respect to  $t$ . These derivatives may even be discontinuous for a finite number of values between  $t_0$  and  $T$ , which will be the case when the lateral boundary consists of portions of several ruled surfaces. The expression for  $A$  may be written in the form  $A = \int_{t_0}^T (a\beta\gamma\delta + \int_{t_0}^t (a\beta\gamma\delta) dt - \int_{t_0}^t (a\beta\gamma\delta) dt)$ , where the integrals on the right are evidently independent of  $x$ . Hence the formula (40) holds for the volume of the given solid. It is worthy of notice that the same formula also gives the volumes of most of the solids of elementary geometry....



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