



# Field engineering; a handbook of the theory and practice of railway surveying, location and construction

*William Henry Searles*

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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. 1901 Excerpt: ...be the value of the angle  $i$ . When  $R = R_i$ ,  $\cot t = 0$  and  $i = 90^\circ$  and the tangent point  $J$  will be on a perpendicular to  $BA$  drawn through the middle point  $K$ ; and  $a = \frac{1}{2}R$ . On the contrary, as  $(R_3 - R_1)$  increases,  $i$  becomes less, and the foot,  $H$ , of the perpendicular  $HI$  moves toward  $B$ , the tangent point of the curve of smaller radius  $B_i$ . The distance  $HK = p \cot i$ . The connecting curve is farthest from the tangent  $BA$  at  $\frac{1}{2}R$ . To find the ordinate from  $BA$  to the curve' at any other point, subtract from  $p$  the tangent offset for the length of curve from  $I$  to the ordinate in question. §115, eq. (39) may be used on flat curves with tolerable accuracy, even when the distance equals several hundred feet. IV. It is evident that in this problem  $R$ , must be greater than either  $R_1$ , or  $R_3$ . As the centre  $O$ , is taken nearer the line  $O_i O_3$   $i$  grows less, and is a minimum when  $Oa$  falls on the line  $O_1 O_3$ . In this case we have  $Aa = 180^\circ$ , and  $B_i = i(Ba + R, + O_i O_3)$ ; a minimum. (183) This limit must be regarded in assuming the value of  $R_a$ . Since  $O_1 O_3 - (i^2 - R_1 - (R_2 - i_1)) = (R, -i^2)$ , a constant value, independent of  $R_i$ , we infer that the centre  $Oa$  is always on a hyperbola of which  $O_i$  and  $O_a$  are the foci;  $(B_3 - i^2)$  equals the diameter on the axis joining the foci; and  $I$  equals the diameter at right angles to it, for in the triangle  $O_1 O_3$ ,  $ia = \frac{1}{2}O_1 O_3 - (R, -R, 1)$  (184) 178. Given 1 a three-centred compound curve to replace the middle arc by an arc of different radius. I. When the radius of the middle arc is the greatest. Fig. 57. First find the length and direction of the common tangent  $AB$ . Let  $Aa =$  central angle of the middle arc,  $Bt =$  its radius, and  $B_i$  and  $B_3$  the radii of the other arcs. From eq. (179).  $I = \sqrt{2(fia - fi)}$  ( $i^2 a - R, 1$  vers  $Aa$ ) (185) Then find  $i$  by eq. (170),  $a$  and  $f t$  by eqs. (181) ...

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