$$(1+k)^2(k^2-\sin^4\varphi)(\cancel{k^2-\sin^2\varphi}) - 2k^2\cancel{\cos^2}\varphi\,(k^2-\sin^2\varphi)(1-\sin^2\varphi)$$

$$k^2(1+k)^2 - (1+k)^2\sin^4\varphi - \cancel{2k^4\sin^2\varphi + 2k^2\sin^2\varphi\cos^2\varphi}$$

$$-2k^4 + 2k^2(1+k^2)\sin^2\varphi - 2k^2\sin^4\varphi$$

$$(1+k)^2(k^2-\sin^4\varphi) - 2k(k^2-\sin^2\varphi)\cos^2\varphi$$

$$(1+k)^2k^2 - (1+k)^2\sin^4\varphi - 2k^3\cos^4\varphi + 2k\sin^2\varphi\cos^2\varphi$$

$$-2k^3 \quad ''$$

$$\left[(1+k)^2k^2 - (1+k)^2\right]\sin^4\varphi +$$

$$+\left[(1+k)^2k^2\right.$$

My dear Mr. Golla,

Thank you for your kind card. I am pleased to know you have brought "Clausius" (as) ~~book~~ with you, ~~and I~~ I am entertaining myself with an ~~curious~~ interesting book on "the sub-me......" by Oliver Rey... — To ..., I think you should go to history Congress. — If he ... on his II, you will enjoy a ... — "~~B...~~ ..." and be ...

Read it again and again; you will find much, not a single time, but ~~You will find the~~ it is a very "nutritive" book, an intellectual "bovril".

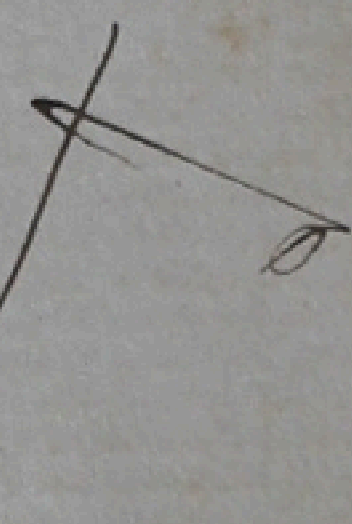
I hear (xx) ~~there is~~ that "they want more"

$\varphi = \frac{1}{?}\int \frac{ds}{\rho}$

p. 70 - 11.

(À vérifier). $\operatorname{tg}\varphi = \dfrac{k \sin\frac{s}{a}}{1-k\cos\frac{s}{a}}$ $\left(\varphi = \theta \,?\; \frac{\pi}{2}-\theta\right)$

$$R = a\sqrt{1+k^2 - 2k\cos\frac{s}{a}}.$$



$$\operatorname{tg}\varphi = \frac{2k \operatorname{tg}\frac{s}{2a}\cos^2\frac{s}{2a}}{1-k\left(\cos^2\frac{s}{2a}-\sin^2\frac{s}{2a}\right)} = \frac{2k\operatorname{tg}\frac{s}{2a}}{(1-k) + (1+k)\operatorname{tg}^2\frac{s}{2a}}$$

$$(1+k)\operatorname{tg}^2\frac{s}{2a} - 2k\cot\varphi\cdot\operatorname{tg}\frac{s}{2a} + (1-k) = 0$$

$$\operatorname{tg}\frac{s}{2a} = \frac{k\cot\varphi \pm\sqrt{k^2\cot^2\varphi - (1-k^2)}}{1+k}$$

$$\operatorname{tg}\frac{s}{2a} = \frac{k\cos\varphi \pm \sqrt{k^2 - \sin^2\varphi}}{(1+k)\sin\varphi}$$

$$\cos\frac{s}{a} = \frac{1 - \dfrac{(k\cos\varphi \pm \sqrt{\ })^2}{(1+k)^2\sin^2\varphi}}{1+(\ \ )} = \frac{(1+k)^2\sin^2\varphi - k^2\cos^2\varphi - k^2 + \sin^2\varphi \mp 2k\cos\varphi\sqrt{\ }}{(1+k)^2\sin^2\varphi + k^2\cos^2\varphi + k^2 - \sin^2\varphi \pm 2k\cos\varphi\sqrt{\ }}$$

$\cancel{1+2k+k^2}$ $2+2k+2k^2$

$1+k^2 - 2k\cos\frac{s}{a}$

$$\frac{2(1+k)\sin^2\varphi - 2k^2\cos^2\varphi \mp 2k\cos\varphi\sqrt{\ }}{2k(1+k)\sin^2\varphi + 2k^2\cos^2\varphi \pm 2k\cos\varphi\sqrt{\ }}$$