A CORRECTION AND AN ADDITION

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1. A Correction. In a former paper† by the author the minus sign on the right side of equation (4), page 888, makes the notations of equations (4) and (5) for the function $G$ inconsistent. This difficulty may be removed by changing the sign of $G$ throughout the paper wherever the first argument of $G$ has $r_1$ in the denominator. This change makes the first footnote on page 888 superfluous and it should be deleted. The second argument of $G$ in equations (9) and (20) should be 0 instead of $\theta$.

2. An Addition. The mean value of the function $\Phi$ over the circle $C_2$ was considered, in the paper, for the case of the singular point $P$ outside of $C_2$ and for the case of $P$ inside of $C_2$. The question naturally arises as to what the situation is in case $P$ lies on $C_2$. This third case is not, however, of much interest since the integral

$$\int_{C_2} \Phi ds,$$

which is now in general improper, will not in general exist. This may readily be verified for the function

$$\Phi = \left( \frac{r^2}{r_2^2} - \frac{r_1^2}{r^2} \right) \cos 2\theta$$

integrated over the circle $C_2$, whose equation is $\rho = r_1 \sin \theta$. It will be found that even the principal value of the above integral is infinite while of course the value of $\Phi$ at the center of $C_2$ is finite.

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