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George O. Golightly* (g1ght9@ao1.com), 735 Loop 142, Jacksonville, TX 75766. *Iterated
Remainders in the Alternating Harmonic Series.*

If A is a summable sequence, the sequence of remainders in the series summing A is denoted by $r(A)$. In case $r(A)$ is, itself, summable, the sequence $r(r(A))$ is denoted by $[r^2](A)$. If A is the alternating harmonic series, each of $A, r(A), [r^2](A), \dots$ is alternating, decreasing in magnitude, and has zero limit. Hence, by the Alternating Series Theorem, each of these sequences is summable. Here, we present a simple formula for the sum of these iterated remainders. It is remarked that although the sum of $A, r(A)(1)$, is $\text{Ln}(2)$, an irrational number, the sum $[[r^n](A)](1)$ of all the terms in the sequence $[r^n](A), n=2,3,4,\dots$, is rational. (Received May 01, 2014)