Consider a solid pellet of radius \( b \) and an annular pellet of inside radius \( a \), and outside radius \( b \), each operating at the same linear power rate, \( q' \).

Define
\[
\Delta T(r) \equiv T(r) - T_b
\]
and
\[
\overline{\Delta T}(r) \equiv \overline{T}(r) - T_b.
\]

- Find across each pellet, the value of \( \overline{\Delta T} / \Delta T \). Use the subscript “s” for solid and the subscript “a” for annular.
- What is the ratio of the stored energy in the solid to the annular pellet?