

larger than it is, since Seban and McLaughlin¹⁶ found a similar ratio of 2:1 between the outside and inside of a curved pipe with a radius ratio 15 times larger than that used here. This reaffirms that estimates of the effects of large perturbations on turbulent shear cannot be inferred by linearly extrapolating the effects of small perturbations.

The low Reynolds number experiment, with its strikingly different heat transfer pattern, raises interesting questions that can only be answered conclusively by providing a mapping of the mean and turbulent velocity field at $Re \approx 10^4$.

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