Forthcoming Events

<table>
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<th>Title of event</th>
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Erratum

Determination of the optimum performance of gas turbines


Dr A. Guha (personal communication, 2001) has drawn my attention to a probable error in my joint paper with Professor Woods. It relates to the approximate calculation of efficiency described in the Appendix of the paper, leading to equation (66). This equation involves two small quantities, $p/P$ and $q/Q$, the analytical forms of which were not given explicitly.

An algebraic error was indeed found in the first of these small quantities. When the corrected $p/P$ is used to determine $\gamma$, as described in equation (51), there is a change in efficiency due to increased turbine mass flow. The corrected value of $\gamma$ for the example quoted below this equation is positive instead of negative, as follows:

$\gamma = 1.69f = 0.0237$ for $f = 0.014$, instead of $\gamma = -1.25f = -0.0175$ for $f = 0.014$.

This correction means that the point shown by a square symbol for the $f$ effect on the upper part of Fig. 7 of the paper was incorrectly located, as indeed was the point indicated by a triangle for all effects. The close agreement with the full computation of specific work remains correct but that for efficiency was fortuitous.

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