

Errata for PhD thesis

Generic Analysis Methods for Gas Turbine Engine Performance

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Section 7.5.4, page 81, 1st paragraph:

First line: '(7.14)' must be replaced with '(7.14)'.

Last line: 'N2' must be replaced with 'N₂'.

Section 9.6.4, page 113

Equation 9.18 and the paragraph following it must be replaced with:

$$Q_{max} = w_a \cdot (h(T_{gin}, GC_a) - h_{a_{in}})$$

' $h(T_{gin}, GC_a)$ ' is the enthalpy of air (gas with composition GC_a) at temperature T_{gin} as calculated by the gas properties model in GSP. Now the air and gas side recuperator exit enthalpies can be calculated from the air and gas inlet enthalpies that are given during the cycle calculation.'

Section 9.6.6, page 120:

Equations 9.51 and 9.52 must be replaced with respectively:

$$T'_{g_i} = FT(h_{g_{i-1}} - \frac{Q_{g_i}}{w_g}, GC_g)$$

and

$$T'_{a_i} = FT(h_{a_{i-1}} + \frac{Q_{a_i}}{w_a}, GC_a)$$

Section 18.7.2, page 227 next to last line:

'(0)' must be replaced with '(see section 18.3)'.

Section 18.8.13, page 242 last line:

'adaption' must be replaced with 'adaptation'.