

Erratum: “Influence of Blade Deterioration on Compressor and Turbine Performance”

[Journal of Engineering for Gas Turbines and Power, 2010, 132(3), p. 032401]

M. Morini, M. Pinelli, P. R. Spina, and M. Venturini

The correct form of the equation which defines η_C (reported on p. 10, first column, line 2 of the printed version) is the following:

$$\eta_C = \frac{h(T_{0(n+1)s}) - h(T_{01})}{h(T_{0(n+1)}) - h(T_{01})}$$

Moreover, in the published paper, there are several mismatches between captions and figures for Figs. 2–4 and 7–11. The correct coupling between captions and figures is reported in the following.

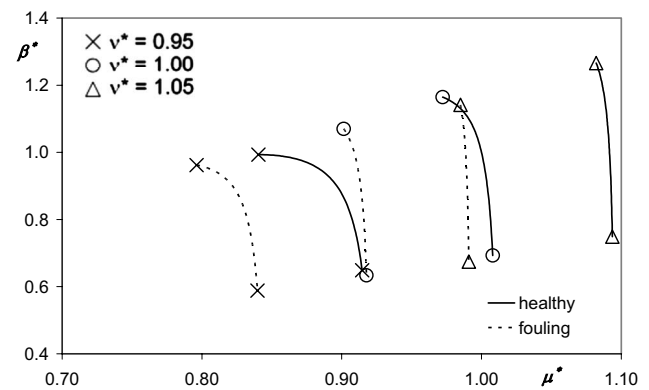
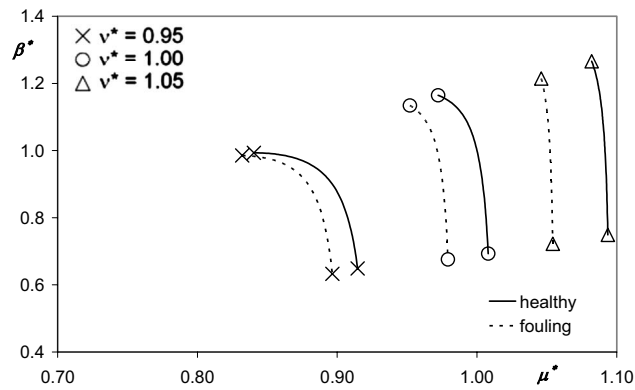
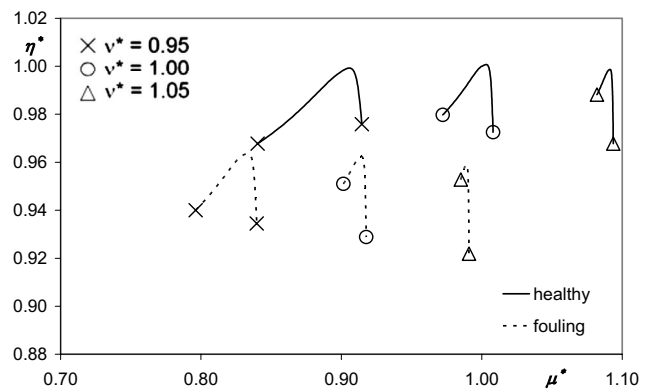
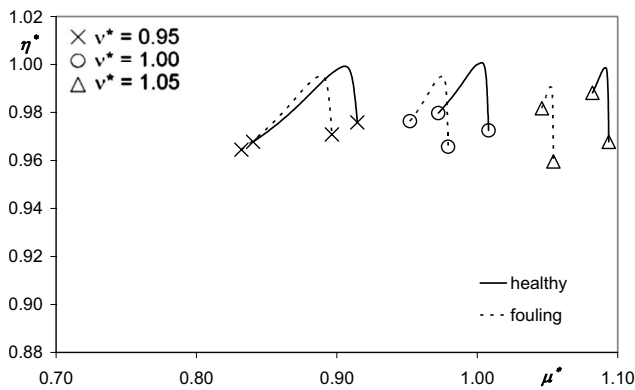


Fig. 2 Effect of fouling on the first compressor stage ($\Delta A^* = -10\%$, $\Delta \eta^* = -5\%$)

Fig. 3 Effect of gradual fouling on all stages

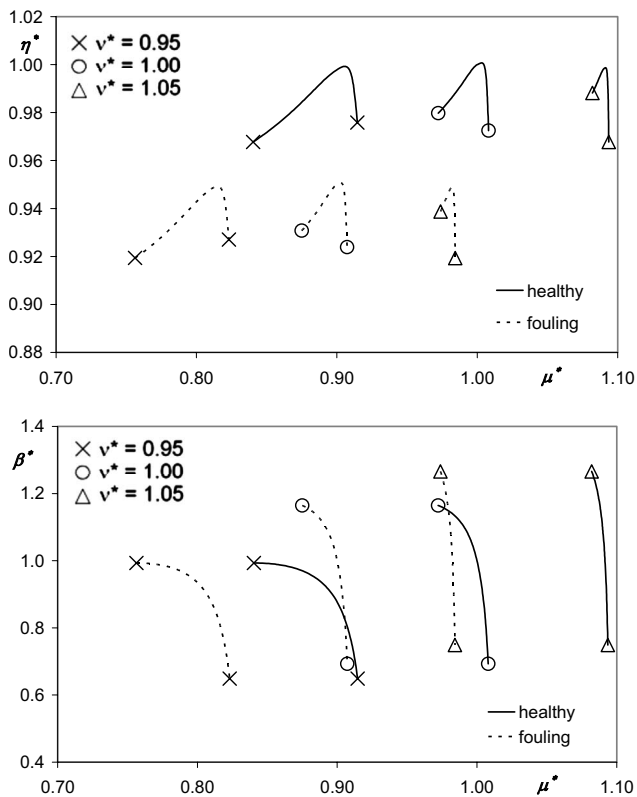


Fig. 4 Effect of fouling on the whole compressor ($\Delta A^* = -10\%$, $\Delta \eta^* = -5\%$)

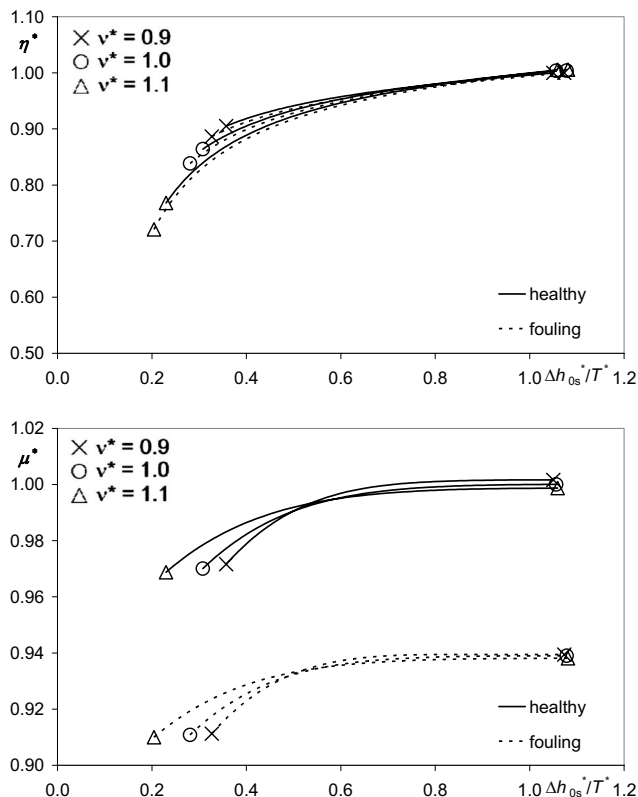


Fig. 8 Effect of gradual fouling on the whole turbine

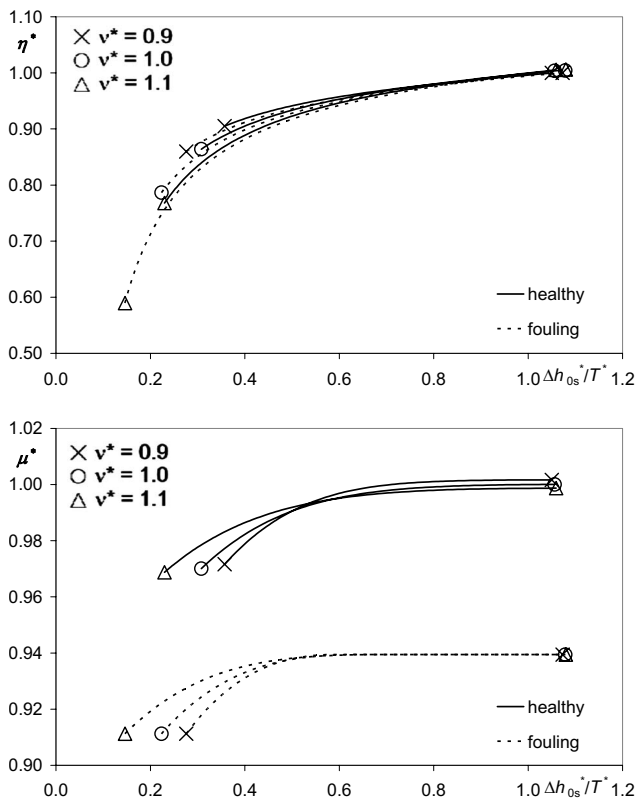


Fig. 7 Effect of fouling on turbine first stator ($\Delta A^* = -6\%$, $\Delta Y^* = +3\%$)

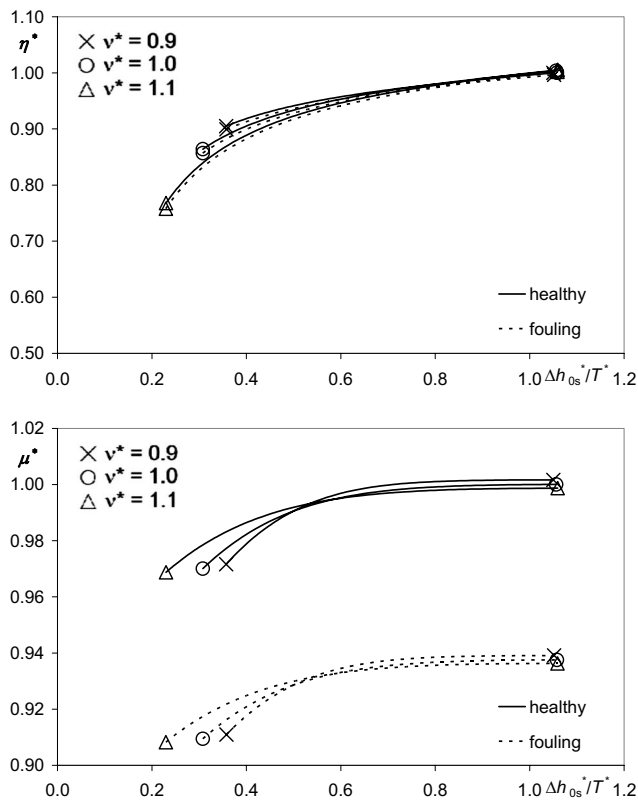


Fig. 9 Effect of fouling on the whole turbine ($\Delta A^* = -6\%$, $\Delta Y^* = +3\%$)

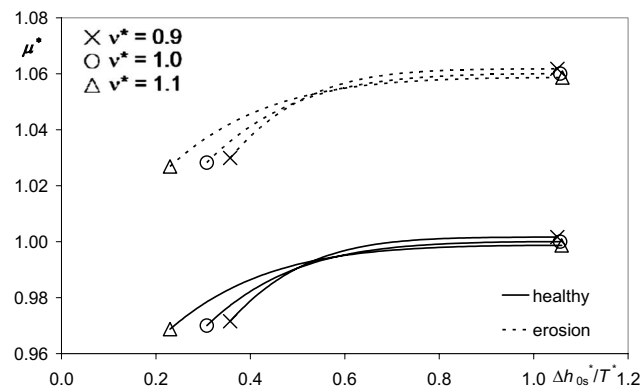
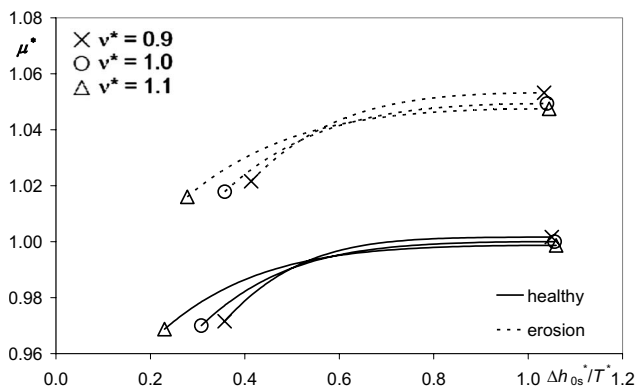
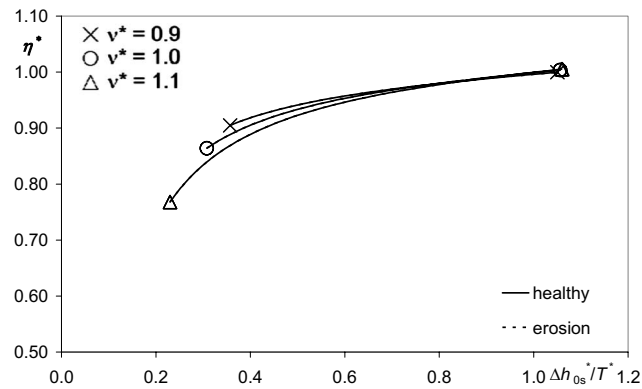
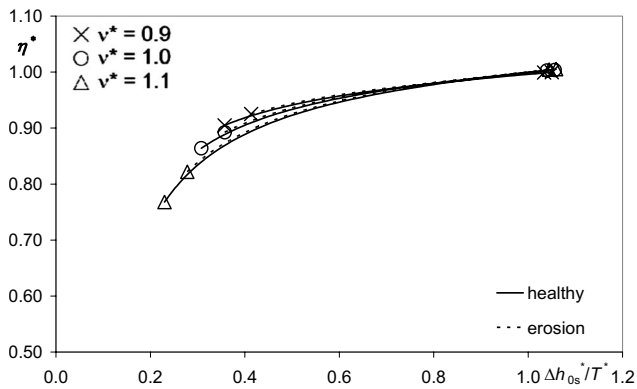


Fig. 10 Effect of erosion on turbine first stator ($\Delta A^* = +6\%$)

Fig. 11 Effect of erosion on the whole turbine ($\Delta A^* = +6\%$)