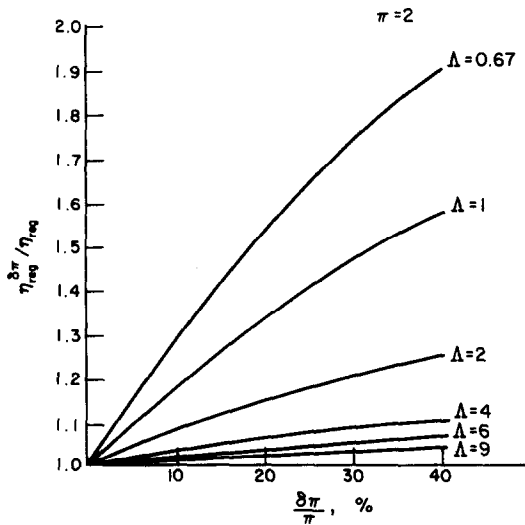
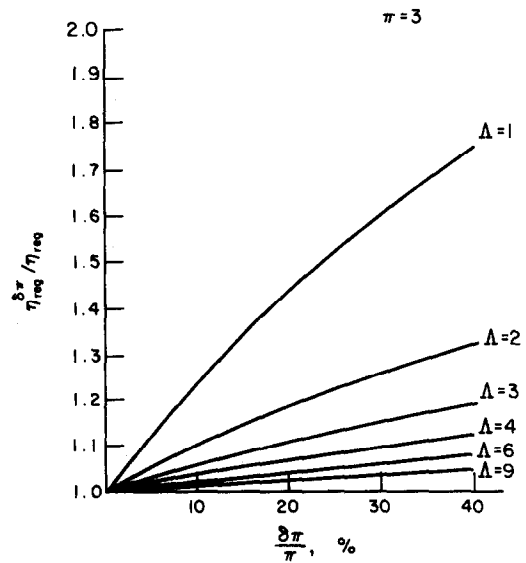
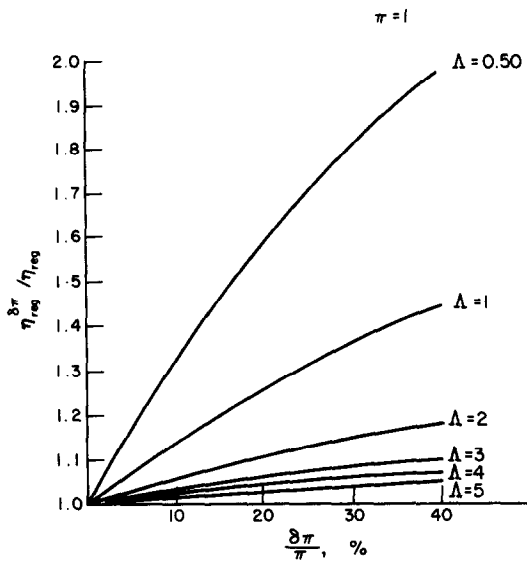


LETTERS TO THE EDITORS

A COMMENT ON THE PAPER "THE EFFECT OF GAS HEAT STORAGE UPON THE PERFORMANCE OF THE THERMAL REGENERATOR" [1]

(Received 18 February 1977)



Dr. P. J. HEGGS (Department of Chemical Engineering, University of Leeds) informally brought to the attention of the authors of the above paper [1] that Figs. 3(a)–(c) seemed to underestimate the effect of carryover upon regenerator performance. The authors subsequently discovered an error in their computer program whereby

$$\frac{\delta \pi}{\pi_{\text{REG}}} \text{ and } \eta_{\text{REG}}$$

were correctly calculated but the ratio

$$\frac{\delta \pi_{\text{REG}}}{\eta_{\text{REG}}}$$

was not! Dr. Heggs mentioned a computer program developed independently of the authors and discussed a paper [2] published in 1976. He agreed to check the author's revised values of

$$\frac{\delta \pi_{\text{REG}}}{\eta_{\text{REG}}}$$

presented in the revised versions of Figs. 3(a)–(c) included here. The calculations of Dr. Heggs and those of the authors now agree.

The authors wish to thank Dr. Heggs for his assistance in this matter and to apologise to the readers of the Journal for this error.

A. J. WILLMOTT

1. A. J. Willmott and C. Hinchcliffe, The effect of gas heat storage upon the performance of the thermal regenerator, *Int. J. Heat Mass Transfer* **19**, 821–826 (1976).
2. P. J. Heggs and K. J. Carpenter, The effect of fluid hold-up on the effectiveness of contraflow regenerators, *Trans. Instn Chem. Engrs* **54**, 232–238 (1976).

Department of Computer Science
University of York
Heslington, York YO1 5DD
U.K.