

정정공고

한국액체미립화학회지 제 12권 제 3호 (September 2007)에 발표되었던 다음 논문에서 정정할 사항이 있어 다음과 같이 공고합니다.

대상논문: Soo-Young No, Correlations for Prediction of Non-evaporating Diesel Spray Penetration, pp.146-153

정정사항:

References전에 다음의 사사 누락

Acknowledgement

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2.2.2 Break-up time and length model 전체를 다음과 같이 정정

Yule *et al.*⁽²⁸⁾ had introduced two methods of modifying the semi-empirical correlation for spray penetration to include the effects of the break-up zone near the injector nozzle. Two correlations had developed by the time-varying power modification and hyperbolic modification. By comparing with the experimental data, they proposed the following empirical correlation based on the hyperbolic modification.

$$S = 3.8 \left[\left(\frac{\Delta P}{\rho_a} \right)^{0.5} d_0 t \right]^{-0.5} \tanh[(t/t_b)^{0.6}] \quad (15)$$

where

$$t_b = \frac{3.75 \times 10^5}{d_0^{0.28} \rho_a^{0.05} \Delta P^{1.37}}$$

This correlation is much similar with jet breakup model by Hiroyasu *et al.*⁽²⁴⁾ However, it should be noted that a single equation can cover the whole spray flow field, rather than the two equations, two-zone approach used in jet breakup model. This correlation was introduced by Gulder⁽²⁹⁾ for the assessment of intact liquid core length with the pressure drop across the nozzle.