Erratum

Corrections to "Analytical Model for Threshold Voltage Shift Due to Impurity Penetration Through a Thin Gate Oxide"

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In the above paper, 1 please note the following corrections. We introduced the integral function having subscript n, H_n , as

$$H_n(\xi) = \frac{2}{\sqrt{\pi}} \frac{1}{n\xi} \int_0^\infty s^n \exp\left[-(s+\xi)^2\right] ds. \tag{30}$$

The corresponding Fig. 1 in the paper should be replaced by the following.

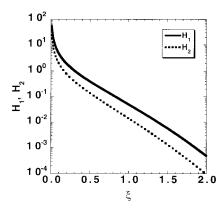


Fig. 1. Dependence of H_n on ξ : d_{ox}/L_{ox} .

The diffusion coefficient of boron in Si expressed by (36) in the paper should read

$$D_{\rm Si}(B) = 0.76 \exp\left[-\frac{3.46 ({\rm eV})}{k_B T}\right] {\rm cm}^2/{\rm s}.$$
 (36)

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