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The Effect of Temperature Dependent Frequency Factor on the Evaluated Trapping Parameters
of TSL Glow Curves

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Abstract: The effect of temperature dependency on frequency factor and its relationship to trapping parameters is discussed by using the peak shape method. The coefficients appearing in the peak shape formula for the calculation of the activation energy have been determined and tabulated for the symmetry factor $\mu_g(X)$ for $x=0.50$ and 0.75 of the peak intensity. It is found that significant errors occur in the value of the trapping parameters if the temperature dependency of the frequency factor is not consider.



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