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Electrical/Electronics Engineering

Assignment

→ Command window

→ clear all

→ clc

→ format smtg

→ $\alpha(1) = 0.5;$

→ $K = 1$

→ $\text{tol} = 1E-21;$

→ $\text{maxI} = 50;$

→ $\text{err}(1) = 0;$

→ symbol

→ $G = (\exp(0.5 * \alpha) * (4 - \alpha)) - 2;$

→ $G_{\text{prime}} = \text{diff}(G)$

→ for $K = 2 : \text{maxI};$

→ $\alpha(K) = (\alpha(K-1) - (\text{subs}(G, \alpha(K-1)) / \text{subs}(G_{\text{prime}}, \alpha(K-1))));$

→ $K = [K, K]$

→ $\text{err}(K) = \text{abs}(\alpha(K) - \alpha(K-1))$

→ if $\text{err}(K) < \text{tol}, \text{break}, \text{end}$

→ end

→ $\text{table} = [K' \alpha' \text{err}]$