

$$f(x)^{a,d} = \frac{-1}{\pi} \left[ \sum_{i=1}^5 u(x)^{a,d} G_i S_i \tan^{-1} \left( \frac{x - C_i}{D_i} \right) + \sum_{i=1}^2 u(x)^{a,d} G_i A_i \tan^{-1} \left( \frac{E_i}{x - C_i} \right) \right] + Y^{a,d} + V^{a,d}(\mathbf{1a})$$