

# Método de Euler Modificado

$$E_{i+1} = w_i + \frac{h}{2} [f(t_i; w_i) + f(t_{i+1}; w_i + h f(t_i; w_i))]$$

Em outras palavras:

$$\left\{ \begin{array}{l} K_1 = f(t_i; w_i) \end{array} \right.$$

$$\left\{ \begin{array}{l} EM = w_i + h \cdot K_1 \end{array} \right.$$

$$\left\{ \begin{array}{l} K_2 = f(t_{i+1}; EM) \end{array} \right.$$

$$\left\{ \begin{array}{l} E_{i+1} = w_i + \frac{h}{2} (K_1 + K_2) \end{array} \right.$$