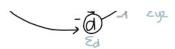
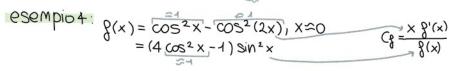
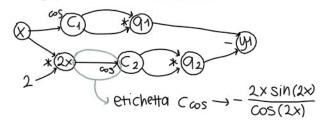
grafi (30/9, 3/10) mercoledì 2 ottobre 2024 09:50 algoritmi ~ + ETICHETTE $\begin{cases} \frac{\text{nodi: errori locali (solo per nisultati intermedi)}}{\text{archi: coefficienti di amplificazione} \sim c_g = \frac{\times g(x)}{g(x)} \end{cases}$ operazioni $\begin{array}{c} S(x) = x^2 - 7x \longrightarrow alg 1 \\ = x (x - 7) \longrightarrow alg 2 \end{array}$ esemplo 2 $\begin{cases} (x) = 1 - \cos x \rightarrow alg 1 \\ \frac{\sin^2 x}{1 + \cos x} \rightarrow alg 2 \end{cases}$ REGOLA: $\epsilon_{alg} = \sum (err \ bocali)(coeff)$ CDEFF = π (etichetta archi uscenti) [1° CAMMINO] + (etichetta archi uscenti) [2° CAMMINO] + -> SOLO PER ARCHI USCENTI DA NODI ETICHETTATI En = 1 + Ed {-1} + Es {1+1+1 . 1} + Ec { (-1)} + Euz esempio 3: $g(x) = \frac{1}{1-\sqrt{x}} - \frac{1}{1+\sqrt{x}}$ $\mathcal{E}_{\text{alg,1}} = \mathcal{E}_{r} \left\{ \left(\frac{-r}{d} \right) \cdot \left(-1 \right) \cdot \frac{\partial J}{\partial y_{1}} + \frac{r}{s} \cdot \left(-1 \right) \cdot \left(\frac{-\partial Z}{y_{1}} \right) \right\} + \mathcal{E}_{s} \left\{ \left(-1 \right) \cdot \left(\frac{-\partial Z}{y_{1}} \right) \right\} + \mathcal{E}_{g,1} \left\{ \frac{\partial J}{\partial y_{1}} \right\} + \mathcal{E}_{g,2} \left\{ \frac{-\partial Z}{y_{1}} \right\} + \mathcal{E}_{y,1} \left\{ \frac{\partial J}{\partial y_{1}} \right\} + \mathcal{E}_{g,2} \left\{ \frac{-\partial Z}{y_{1}} \right\} + \mathcal{E}_{y,1} \left\{ \frac{\partial J}{\partial y_{1}} \right\} + \mathcal{E}_{g,2} \left\{ \frac{-\partial Z}{y_{1}} \right\}$ $g(x) = \frac{1}{1 - \sqrt{x}} \bigcirc \frac{1}{1 + \sqrt{x}}$ $(x) = \frac{1}{1 - \sqrt{x}} (1 + \sqrt{x}) = \frac{1}{1 - x}$ $(x) = \frac{1}{1 - \sqrt{x}} (1 + \sqrt{x}) = \frac{1}{1 - x}$ $\rightarrow C_{\xi} = \frac{\chi_{\xi_{1}(x)}}{\chi_{\xi_{1}(x)}} \rightarrow C_{\xi_{1}} \xrightarrow{\chi \rightarrow 0^{+}} C_{\xi_{1}}$ $\frac{21}{\sqrt{1-\sqrt{x}}} = +\infty$ $\frac{1}{\sqrt{1-\sqrt{x}}} = +\infty$ $\begin{cases} 1(x) = -\frac{1}{(1-\sqrt{x})^2} \left(-\frac{1}{2\sqrt{x}} \right) + \frac{1}{(1+\sqrt{x})^2} \cdot \frac{1}{2\sqrt{x}} = \frac{1}{2\sqrt{x}} \left[\frac{1}{(1-\sqrt{x})^2} + \frac{1}{(1+\sqrt{x})^2} \right] \end{cases}$ $C_{g} = \frac{\times_{Q'(x)}^{Q'(x)}}{\frac{Q(x)}{Q(x)}} = \frac{\times \frac{1}{2\sqrt{x}} \begin{bmatrix} \hat{1} \\ \frac{1}{2\sqrt{x}} \end{bmatrix}}{\frac{2\sqrt{x}}{\sqrt{x}}} = \frac{\times_{Q}^{2} \begin{bmatrix} \hat{1} \\ \frac{1}{2\sqrt{x}} \end{bmatrix}}{\frac{2\sqrt{x}}{\sqrt{x}}} = \frac{\times_{Q}^{2} \begin{bmatrix} \hat{1} \\ \frac{1}{2\sqrt{x}} \end{bmatrix} (1-x)}{4x} = \frac{X_{Q}^{2} \begin{bmatrix} \hat{1} \\ \frac{1}{2\sqrt{x}} \end{bmatrix}}{4x} = \frac{X_{Q}^{2} \begin{bmatrix} \hat{1} \\ \frac{1}{2\sqrt{x}}$ $\Rightarrow \lim_{x \to 0^+} \zeta = \frac{1}{2} \Rightarrow \epsilon_{in} = \frac{1}{2} \epsilon_x$

 $\varepsilon_{\text{alg2}} = \varepsilon_{\text{r}} \left\{ 1.1 \right\} + \varepsilon_{\text{h}} \left\{ 1 \right\} + \varepsilon_{\text{d}} \left\{ -1 \right\} + \varepsilon_{\text{y2}} = \varepsilon_{\text{r}} + \varepsilon_{\text{h}} - \varepsilon_{\text{d}} + \varepsilon_{\text{y2}}$







$$Q(x) = \cos x$$

$$Q(x) = \frac{x0'(x)}{Q(x)} = \frac{\cos x}{\cos x}$$