$$F_{cb}(x_r,a)=b\tanh(x_r/c)=b\frac{e^{x_r/c}-e^{-x_r/c}}{e^{x_r/c}+e^{-x_r/c}} \quad \begin{array}{l} x_r=\log(L_r) \\ L_r=L/L_u \\ x_r>=0 \end{array} \text{ [1]}$$

$$\frac{dF_{cb}(x_r,a)}{dx_r}=\frac{4b}{c[e^{x_r/c}+e^{-x_r/c}]^2} \quad \begin{array}{l} x_r=\ln L_r/\ln(10) \\ dx_r/dL_r=1/(\ln(10)L_r) \\ n=1/(\ln(10)c) \end{array} \text{ [5]}$$

$$\frac{L}{dL}=\frac{4bn}{[e^{x_r/c}+e^{-x_r/c}]^2} \quad dL=\frac{[e^{x_r/c}+e^{-x_r/c}]^2 L}{4bn} \text{ [7]}$$

$$\frac{L}{dL}=\frac{4bn}{[L_r^n+L_r^{-n}]^2} \quad dL=\frac{[L_r^n+L_r^{-n}]^2 L}{4bn} \text{ [8]}$$

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