

## Quality (cont.)

$$X = \frac{m_g}{m_g + m_f}$$

$$1 - X = \frac{m_f}{m_g + m_f}$$

$$\begin{aligned} X &\equiv \frac{m_g}{m_g + m_f} \\ &= \frac{v - v_f}{v_g - v_f} = \frac{h - h_f}{h_g - h_f} \\ &= \frac{u - u_f}{u_g - u_f} = \frac{s - s_f}{s_g - s_f} \end{aligned}$$