

$$T = \frac{N}{p_H} d'_b \left[b + (1 - b) \eta \right]$$

$$\eta^{\star} = \frac{d_r + d_p}{d_b}$$

$$d'_b = d_b \left[\frac{b + (1 - b) \eta^{\star}}{b + (1 - b) \eta} \right] \frac{T}{T^{\star}}$$

$$\eta^{\star} = t_s^{\star}/t_b^{\star}$$

$$d'_r - d_r = \eta d'_b - \eta^{\star} d_b$$