

$$A_T = \frac{\sum_{i=1}^n P_{G_i} C_{G_i}}{Q_T} = \frac{P_{G_1} C_{G_1} + P_{G_2} C_{G_2} + \dots + P_{G_n} C_{G_n}}{Q_T} \quad (\text{Eq. 1})$$