

Chapter 3

3.1 Additive Molar Functions

- Additive Principles – a powerful tool in the semi-empirical approach in the study of physical properties of polymers

$$F = \sum n_i F_i$$

여기서 F = molar property
 n_i = the number of contributing properties
 F_i = numerical contribution of component

예로서

$$V_r(298K) = \sum_i V_i(298k) \quad (4.36)$$

→ molar volume of rubbery polymer

$$\gamma = \left(\frac{P_s}{V} \right)^4 \quad (\gamma = \text{surface tension})$$

$$P_s(\text{parachor}) = \sum n_i P_{si}$$