



Sharzeie@ut.ac.ir



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(DeRooy, (Turnovsky, 1969)

1974)

(Babin, 1982)

(Grebenstein, 1979)



(Tate, 1986) (Ziegler) (Bell)
 (Renzetti, 1988)

(Colby, 1989)
 (1996, 1998)
 (Hua Wang, 1999)

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(Share Equation)

$$\begin{aligned} \ln C_W = & \alpha + \sum_{i=1}^f \alpha_i \ln(P_i) + \frac{1}{\gamma} \sum_{i=1}^f \sum_{j=1}^f \alpha_{ij} \ln(P_i) \ln(P_j) \\ & + \sum_{i=1}^f \beta_i \ln(P_i) \ln(P_i) \ln(Y) + \beta_{\gamma} \ln(Y)^{\gamma} + u \end{aligned} \quad ()$$

$i, j = \text{int, trt, rcr, dis}$



Y

P_j P_i

C_w

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(Sheqhards)

$$\frac{\partial \text{Ln}(C_w)}{\partial \text{Ln}(P_i)} = \alpha_i + \sum_{j=1}^r \alpha_{ij} \text{Ln}(P_j) + \beta_i \text{Ln}(Y) \quad ()$$

$i, j = \text{int, trt, rcr, dis}$

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