Erratum

Optimization of Nylon 6 Reactors with End-Point Constraints

SANTOSH K. GUPTA,* B. S. DAMANIA, and ANIL KUMAR, *Department of Chemical Engineering, Indian Institute of Technology, Kanpur-208016, India*

[article in *J. Appl. Polym. Sci.*, **29**, 2177–2194 (1984)]

In Table III, under Increment in $T(t)$[30,31], the equation should be corrected to

$$\delta T(t) = -\left[\frac{\partial f_1}{\partial T}, \quad \frac{\partial f_2}{\partial T}, \ldots \frac{\partial f_n}{\partial T}\right]\left\{\begin{bmatrix}\lambda_{1,1}\\ \lambda_{2,1}\\ \vdots\\ \lambda_{n,1}\end{bmatrix} - \begin{bmatrix}\lambda_{1,2}, & \lambda_{1,3}\\ \lambda_{2,2}, & \lambda_{2,3}\\ \vdots & \\ \lambda_{n,2}, & \lambda_{n,3}\end{bmatrix}\mathbf{I}_{\psi\psi}^{-1}\begin{bmatrix}I_{\psi I,1,1}\\ I_{\psi I,2,1}\end{bmatrix}\right\}$$

$$*\left\{\frac{r^2 - [\delta_{\psi_1}, \delta_{\psi_2}]\mathbf{I}_{\psi\psi}^{-1}\begin{bmatrix}\delta_{\psi_1}\\ \delta\psi_2\end{bmatrix}}{I_{II} - \mathbf{I}_{\psi I}^T\mathbf{I}_{\psi\psi}^{-1}\mathbf{I}_{\psi I}}\right\}^{1/2} + \left[\frac{\partial f_1}{\partial T}, \quad \ldots, \quad \frac{\partial f_n}{\partial T}\right][\ldots] \quad \ldots$$

where

$$I_{II} = \int_0^{t_f}[\lambda_{1,1}, \lambda_{2,1}, \ldots \lambda_{n,1}]\begin{bmatrix}\partial f_1/\partial T\\ \partial f_2/\partial T\\ \vdots\\ \partial f_n/\partial T\end{bmatrix}[\partial f_1/\partial T, \ldots, \partial f_n/\partial T]\begin{bmatrix}\lambda_{1,1}\\ \lambda_{2,1}\\ \vdots\\ \lambda_{n,1}\end{bmatrix} dt$$

and superscript T represents the transpose of the matrix. Values of $r \sim 0.002$ were used.

Journal of Applied Polymer Science, Vol. 30, 887 (1985)

CCC 0021-8995/85/020887-01$04.00