



$$\frac{\partial u_2}{\partial t_1} + \frac{\partial u_3}{\partial t_1} = 0$$

$$u_2 \frac{\partial u_2}{\partial t_1} = \alpha_1 [(x_1 - x_3) + (\alpha_1 t_1 - \alpha_3 t_3)] + \beta_1 [(y_1 - y_3) + (\beta_1 t_1 - \beta_3 t_3)] + \dots$$

$$u_2 \frac{\partial u_2}{\partial t_1} = [\alpha_1 (x_1 - x_3) + \beta_1 (y_1 - y_3) + \gamma_1 (z_1 - z_3) + t_1 - \omega_2 t_3] u_3$$

$$u_3 \frac{\partial u_3}{\partial t_1} + [\alpha_1 (x_1 - x_2) + \beta_1 (y_1 - y_2) + \dots + t_1 - \omega_3 t_2] u_2 = 0$$

$$\alpha_1 (x_1 - x_2)$$

$$\sum \alpha_i x_j = \sigma_{ij}$$

$$(\sigma_{11} - \sigma_{12} + t_1 - \omega_3 t_2) u_2 + (\sigma_{11} - \sigma_{13} + t_1 - \omega_2 t_3) u_3 = 0$$

$$t_1 (u_2 + u_3) - \omega_3 t_2 u_2 - \omega_2 t_3 u_3 + (\sigma_{11} - \sigma_{12}) u_2 + (\sigma_{11} - \sigma_{13}) u_3 = 0$$

$$\begin{cases} (u + \sigma_{11}) t_1 = (t_1 u_1 + \omega_3 t_2 u_2 + \omega_2 t_3 u_3) + (\sigma_{11} u_1 + \sigma_{12} u_2 + \sigma_{13} u_3) \\ (u + \sigma_{12}) t_2 = (\omega_3 t_1 u_1 + t_2 u_2 + \omega_1 t_3 u_3) + (\sigma_{21} u_1 + \sigma_{22} u_2 + \sigma_{23} u_3) \\ (u + \sigma_{13}) t_3 = (\omega_2 t_1 u_1 + \omega_1 t_2 u_2 + t_3 u_3) + (\sigma_{31} u_1 + \sigma_{32} u_2 + \sigma_{33} u_3) \end{cases}$$

$$\alpha_1^2 + \beta_1^2 + \gamma_1^2$$

$$\alpha_1 \alpha_2 + \beta_1 \beta_2 + \gamma_1 \gamma_2$$

$$\alpha_1 \alpha_3$$

$$\begin{vmatrix} \alpha_1 & \beta_1 & \gamma_1 \\ \alpha_2 & \beta_2 & \gamma_2 \\ \alpha_3 & \beta_3 & \gamma_3 \end{vmatrix}$$

$$\alpha_1 \alpha_1 + \beta_1 \beta_1 + \gamma_1 \gamma_1$$

$$\omega_3 t_1 u_1$$

$$t_1 u_1$$

$$\begin{vmatrix} \alpha_1 & \beta_1 & \gamma_1 \\ \alpha_2 & \beta_2 & \gamma_2 \\ \alpha_3 & \beta_3 & \gamma_3 \end{vmatrix}$$

$$\sum \alpha_i x_j +$$

$$\alpha_1 \alpha_2 + \beta_1 \beta_2 + \dots + \alpha_2 \alpha_1 + \beta_2 \dots$$