

شکستن فرمول‌های خیلی طولانی

۱۳۹۱ آذر ۲۸

با استفاده از بسته breqn می‌توانید فرمول را بصورت خودکار بشکنید و نیازی به محیط align ندارید. جزو بسته mh می‌باشد.

$$\begin{aligned}
 & \left(\hat{E}h + \gamma E^s \right) \left[\sum_{m=1}^{N_x} B_{im}^x u_{mj} + \left(\sum_{m=1}^{N_x} A_{im}^x w_{mj} \right) \left(\sum_{m=1}^{N_x} B_{im}^x w_{mj} \right) \right] + \\
 & \left[\nu \hat{E}h + Gh + \gamma E^s \right] \left[\sum_{m=1}^{N_x} \sum_{n=1}^{N_y} A_{im}^x A_{jn}^y v_{mn} + \left(\sum_{n=1}^{N_y} A_{jn}^y w_{in} \right) \right. \\
 & \left. \left(\sum_{m=1}^{N_x} \sum_{n=1}^{N_y} A_{im}^x A_{jn}^y w_{mn} \right) \right] [Gh + \gamma (\gamma \mu^s - \tau^s)] \left[\sum_{n=1}^{N_y} B_{jn}^y u_{in} + \right. \\
 & \left. \left(\sum_{m=1}^{N_x} A_{im}^x w_{mj} \right) \left(\sum_{n=1}^{N_y} B_{jn}^y w_{in} \right) \right] = \rho h \ddot{u}_{ij} - \mu \rho h \left(\sum_{m=1}^{N_x} B_{im}^x \ddot{u}_{mj} + \right. \\
 & \left. \sum_{n=1}^{N_y} B_{jn}^y \ddot{u}_{in} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \left(\hat{E}h + \gamma E^s \right) \left[\sum_{n=1}^{N_y} B_{jn}^y v_{in} + \left(\sum_{n=1}^{N_y} A_{jn}^y w_{in} \right) \left(\sum_{n=1}^{N_y} B_{jn}^y w_{in} \right) \right] + (\nu \hat{E}h + \\
 & Gh + \gamma E^s) \left[\sum_{m=1}^{N_x} \sum_{n=1}^{N_y} A_{im}^x A_{jn}^y u_{mn} + \left(\sum_{m=1}^{N_x} A_{im}^x w_{mj} \right) \left(\sum_{m=1}^{N_x} \right. \right. \\
 & \left. \left. \sum_{n=1}^{N_y} A_{im}^x A_{jn}^y w_{mn} \right) + [Gh + \gamma (\gamma \mu^s - \tau^s)] \left[\sum_{m=1}^{N_x} B_{im}^x v_{mj} + \left(\sum_{n=1}^{N_y} A_{jn}^y w_{in} \right) \right. \right. \\
 & \left. \left. \left(\sum_{m=1}^{N_x} B_{im}^x w_{mj} \right) \right] = \rho h \ddot{v}_{ij} - \mu \rho h \left(\sum_{m=1}^{N_x} B_{im}^x \ddot{v}_{mj} + \sum_{n=1}^{N_y} B_{jn}^y \ddot{v}_{in} \right)
 \end{aligned} \tag{1}$$

$$\begin{aligned}
& \left\{ [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{1}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{1}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{1})] \left(\sum_{m=1}^{N_\xi} \bar{D}_{im}^\xi w_{mj}^b + B_i^\xi \kappa_{\mathfrak{j}j}^{bx} + B_i^\xi \kappa_{N_\xi j}^{b\xi} \right) + \right. \\
& [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{r}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{r}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{r})] \left(\sum_{n=1}^{N_\eta} \bar{D}_{jn}^\eta w_{in}^b + B_j^\eta \kappa_{i\mathfrak{l}}^{b\eta} + B_j^\eta \kappa_{iN_\eta}^{b\eta} \right) + \\
& [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{r}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{r}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{r})] \sum_{n=1}^{N_\eta} A_{jn}^\eta \left(\sum_{m=1}^{N_\xi} \bar{C}_{im}^\xi w_{mn}^b + A_i^\xi \kappa_{\mathfrak{j}n}^{b\xi} + A_i^\xi \kappa_{N_\xi n}^{b\xi} \right. \\
& \left. \kappa_{N_\xi n}^{b\xi} \right) + [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{r}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{r}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{r})] \sum_{m=1}^{N_\xi} A_{im}^\xi \left(\sum_{n=1}^{N_\eta} \bar{C}_{jn}^\eta w_{mn}^b + A_j^\eta \kappa_{i\mathfrak{n}}^{b\eta} \right. \\
& \left. + A_{jN_\eta}^\eta \kappa_{N_\eta n}^{b\eta} \right) + [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{d}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{d}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{d})] \sum_{m=1}^{N_\xi} \sum_{n=1}^{N_\eta} B_{im}^\xi B_{jn}^\eta w_{mn}^b \Bigg\} \mathfrak{T}\mu\tau^s \\
& - \mathfrak{T}\mu\tau^s \left\{ [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{1}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{1}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{1})] \sum_{m=1}^{N_\xi} D_{im}^\xi w_{mj}^s + [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{r}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{r}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{r})] \cdot \right. \\
& \left. \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{r}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{r}) \right] \sum_{n=1}^{N_\eta} D_{jn}^\eta w_{in}^s + [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{r}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{r}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{r})] \cdot \\
& \sum_{m=1}^{N_\xi} \sum_{n=1}^{N_\eta} C_{im}^\xi A_{jn}^\eta w_{mn}^s + [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{r}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{r}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{r})] \sum_{m=1}^{N_\xi} \sum_{n=1}^{N_\eta} A_{im}^\xi C_{jn}^\eta w_{mn}^s + \\
& [T_{\mathfrak{F}}(\mathfrak{1}, \mathfrak{d}) + \mathfrak{T}T_{\mathfrak{F}}(\mathfrak{d}, \mathfrak{d}) + T_{\mathfrak{F}}(\mathfrak{r}, \mathfrak{d})] \sum_{m=1}^{N_\xi} \sum_{n=1}^{N_\eta} B_{im}^\xi B_{jn}^\eta w_{mn}^s \Bigg\} + (kGh + \mathfrak{T}\tau^s) \cdot \\
& \left[T_{\mathfrak{Y}}(\mathfrak{1}, \mathfrak{1}) \sum_{m=1}^{N_\xi} B_{im}^\xi w_{mj}^s + T_{\mathfrak{Y}}(\mathfrak{1}, \mathfrak{r}) \sum_{n=1}^{N_\eta} B_{jn}^\eta w_{in}^s + T_{\mathfrak{Y}}(\mathfrak{1}, \mathfrak{r}) \sum_{m=1}^{N_\xi} \sum_{n=1}^{N_\eta} A_{im}^\xi A_{jn}^\eta w_{mn}^s \right] \\
& + \left(\mathfrak{T}\tau^s + \mu m \cdot \frac{\partial \mathfrak{r}}{\partial t} \right) \left[T_{\mathfrak{Y}}(\mathfrak{1}, \mathfrak{1}) \sum_{m=1}^{N_\xi} B_{im}^\xi (w_{mj}^b + w_{mj}^s) + T_{\mathfrak{Y}}(\mathfrak{1}, \mathfrak{r}) \sum_{n=1}^{N_\eta} B_{jn}^\eta w_{in}^b \right. \\
& \left. + w_{in}^s \right) + \sum_{m=1}^{N_\xi} \sum_{n=1}^{N_\eta} A_{im}^\xi A_{jn}^\eta (w_{mn}^b + w_{mn}^s) \Bigg] = m \cdot \frac{\partial \mathfrak{r} (w_{ij}^b + w_{ij}^s)}{\partial t} \tag{2}
\end{aligned}$$