

$$\mathcal{P} = \cap_{i=1}^n h_i, \quad (1)$$

$$h_i = \{(x, y, z), \text{ where } a_i x + b_i y + c_i z + d_i \leq 0\}. \quad (2)$$

$$\text{for all } \mathbf{v} \in \mathcal{P}_A : a_s v_x + b_s v_y + c_s v_z + d_s \leq 0 \quad (3)$$

$$\text{for all } \mathbf{v} \in \mathcal{P}_B : a_s v_x + b_s v_y + c_s v_z + d_s \geq 0 \quad (4)$$

$$q' \in \mathcal{P}'_q \rightarrow \mathbf{q} = (a'/d', b'/d', c'/d') \quad (5)$$

$$\sigma_{ij} = \frac{1}{V} \sum_c l_i^{(c)} F_j^{(c)}, \quad (6)$$

$$\|AB\|_p = \min_{k_1, \dots, k_{N_{var}}} \left(\sqrt{\sum_{i=1}^{N_{var}} [d_i + k_i]^2} \right) = \sqrt{\min_{k_1, \dots, k_{N_{var}}} \left(\sum_{i=1}^{N_{var}} [d_i + k_i]^2 \right)} = \sqrt{\sum_{i=1}^{N_{var}} \min_{k_i} ([d_i + k_i]^2)}, \quad (7)$$

$$k_i = \begin{cases} -1 & \text{if } d_i^{(AB)} > 0.5 \\ 0 & \text{if } d_i^{(AB)} \in \langle -0.5, 0.5 \rangle \\ 1 & \text{if } d_i^{(AB)} < -0.5. \end{cases} \quad (8)$$

$$\mathbf{H}(\mathbf{x}) = F_H^{-1}(\Phi(\widehat{\mathbf{H}}(\mathbf{x}))), \quad (9)$$

$$\widehat{\mathbf{H}}^c(\mathbf{x}) = \sum_{k=1}^K \frac{\xi_k^c}{\sqrt{\lambda_k}} \boldsymbol{\psi}_k^T \mathbf{C}_{xg}, \quad (10)$$

$$F_o = \max \left(\frac{|\bar{A}_c^{\text{exp}} - A_c^{\text{sim}}|}{\bar{A}_c^{\text{exp}}}, \frac{|\bar{P}_c^{\text{exp}} - P_c^{\text{sim}}|}{\bar{P}_c^{\text{exp}}} \right) \text{ for } c \in \{\text{Aa, Ba, Ca, Da}\}. \quad (11)$$

$$G_n(x) = \text{P}(Q_n^* \leq x) = \sum_{k=1}^n (-1)^{k+1} \binom{n}{k} [F(x)]^k G_{n-k}\left(\frac{nx}{n-k}\right), \quad (12)$$

kde $G_1(x) \equiv F(x)$, $G_0(x) \equiv 1$ a $\binom{n}{k} = \frac{n!}{(n-k)! k!}$

$$p^A = \int\limits_0^{\frac{\pi}{2}} \int\limits_{-\frac{\ell}{2} + \delta}^{\frac{\ell}{2} + \delta} \frac{\sin \varphi}{L} \mathbf{1}_A \left(\frac{\ell}{2} \cos \varphi - |x| \right) \mathrm{d} x \mathrm{d} \varphi \quad (13)$$

$$\{\bar{\mathbf{R}}_{12}\} = \left\{ \begin{array}{c} \bar{X}_{12} \\ \bar{Z}_{12} \\ \bar{M}_{12} \\ \bar{X}_{21} \\ \bar{Z}_{21} \\ \bar{M}_{21} \end{array} \right\} = \left\{ \begin{array}{c} 0.5 \\ 10 \\ 20 \\ 6 \\ 8.5 \\ 11 \end{array} \right\} [\text{N}] \quad (14)$$