

$$p_{-\varepsilon}(r) = \frac{2b-a}{r_{-}\varepsilon^3} Fr - \frac{3}{2r_{-}\varepsilon^5} \left(2b \left(r^T Fr \right) I_n + a\varepsilon^2 F \right) r$$

where

- $F \in \mathbb{R}^{n \times n}$
- $r \in \mathbb{R}^n$
- $r_{-}\varepsilon \in \mathbb{R}$
- $a \in \mathbb{R}$
- $b \in \mathbb{R}$
- $\varepsilon \in \mathbb{R}$