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

where

$$F \in \mathbb{R}^{n \times n}$$

 $r \in \mathbb{R}^n$ 

 $r_{-}\varepsilon \in \mathbb{R}$ 

 $a \in \mathbb{R}$ 

 $b\in\mathbb{R}$ 

 $\varepsilon \in \mathbb{R}$