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

where

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

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

$$r_{\epsilon} \in \mathbb{R}$$

$$a \in \mathbb{R}$$

$$b\in\mathbb{R}$$

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