

$$\widetilde{\mathbf{L}}_p^0 = \mathbf{L}_p(t_0)$$

For $i = 0, 1, \dots, n$

$$\mathbf{R}^i = \widetilde{\mathbf{L}}_p^i - \mathbf{L}_p(\mathbf{F}_e(\mathbf{S}(\widetilde{\mathbf{L}}_p^i)))$$

Y	$\ \mathbf{R}^i\ _2 < \epsilon_{\text{tol}}$	N
---	--	---

break	Y	$\ \mathbf{R}^i\ _2 \leq \ \mathbf{R}^{i-1}\ _2$ or $i = 0$	N
-------	---	---	---

$$\alpha^i = 1$$

$$\alpha^i = \beta \alpha^{i-1}$$

$$\text{solve } \mathbf{R}^i + \mathbf{R}_{, \widetilde{\mathbf{L}}_p} \bullet \Delta \mathbf{L}_p^i = 0$$

$$\widetilde{\mathbf{L}}_p^i = \widetilde{\mathbf{L}}_p^{i-1}$$

$$\widetilde{\mathbf{L}}_p^{i+1} = \widetilde{\mathbf{L}}_p^i + \alpha^i \Delta \mathbf{L}_p^i$$

$$\mathbf{L}_p(t) = \widetilde{\mathbf{L}}_p^i$$