

Inputed Data Just for the Information

Concrete Grade:	<div style="border: 1px solid gray; padding: 2px;"> C25/30 C30/37 C35/45 C40/50 C45/55 </div>	Structural Class:	<div style="border: 1px solid gray; padding: 2px;"> Category I Category II Accidental </div>	Reinforcement Grade:	<div style="border: 1px solid gray; padding: 2px;"> A400 A500 A600 A700 Custom </div>
	Grade = "C35/45"				Structural Class = "Category II"

Out of the Two Function M.Ed and N.Ed

I am trying to find the Minimum N.Ed (-Ve Value) when the function M.Ed = 0

$$\varepsilon_{st.Max} := 0.0028 \quad \varepsilon_{c.Max} := -0.0009$$

Given

$$-1\varepsilon_{cu2} \leq \varepsilon_{c.Max} < 0 \quad 0 \leq \varepsilon_{st.Max} < 0.01 \quad M_{Ed}(\varepsilon_{st.Max}, \varepsilon_{c.Max}) = 0$$

$$\text{Minimize}(N_{Ed}, \varepsilon_{st.Max}, \varepsilon_{c.Max}) =$$

$$\varepsilon_{st.Max} := 0.0028 \quad \varepsilon_{c.Max} := -0.0009$$

Given

$$-1\varepsilon_{cu2} \leq \varepsilon_{c.Max} < 0 \quad 0 \leq \varepsilon_{st.Max} < 0.01 \quad N_{Ed}(\varepsilon_{st.Max}, \varepsilon_{c.Max}) = 0$$

$$\text{Maximize}(M_{Ed}, \varepsilon_{st.Max}, \varepsilon_{c.Max}) =$$

Out of the Two Function M.Ed and N.Ed

I am trying to find the Maximum M.Ed (+Ve Value) when the function N.Ed = 0