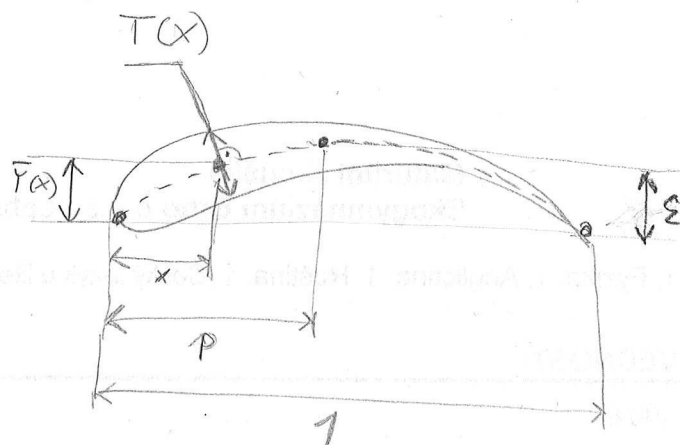


NACA Airfoils:

See p. 7-8 of Moran

4-digit series:

$$T(x) = 10\tau \left[0.2969 \sqrt{x} - 0.126x - 0.3537x^2 + 0.2843x^3 - 0.1013x^4 \right]$$

$$\bar{Y}(x) = \begin{cases} \frac{2x}{p^2} (2p-x) & \text{for } 0 < x < p \\ \frac{2}{(1-p)^2} (1+x-2p) & \text{for } p < x < 1 \end{cases}$$

NACA code: $\overset{1^{st} \text{ digit}}{[100\varepsilon]} \overset{2^{nd} \text{ digit}}{[10p]} \overset{3^{rd} \& 4^{th} \text{ digit}}{[100\tau]}$

Example: NACA 2 4 12

$$\Rightarrow \varepsilon = 0.02; p = 0.4; \tau = 0.12$$