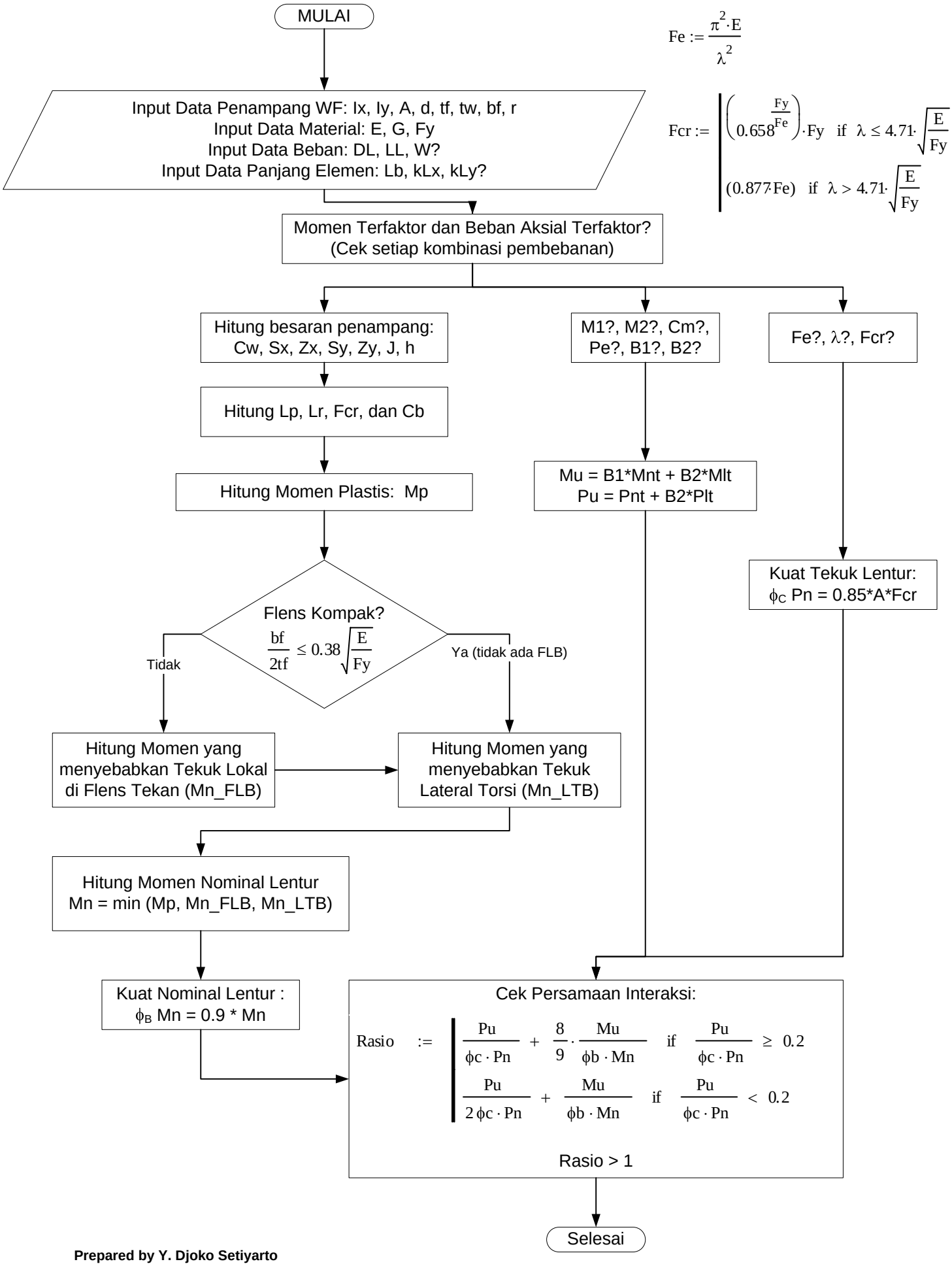
Desain Balok Kolom Profil WF Menurut AISC-LRFD 2005



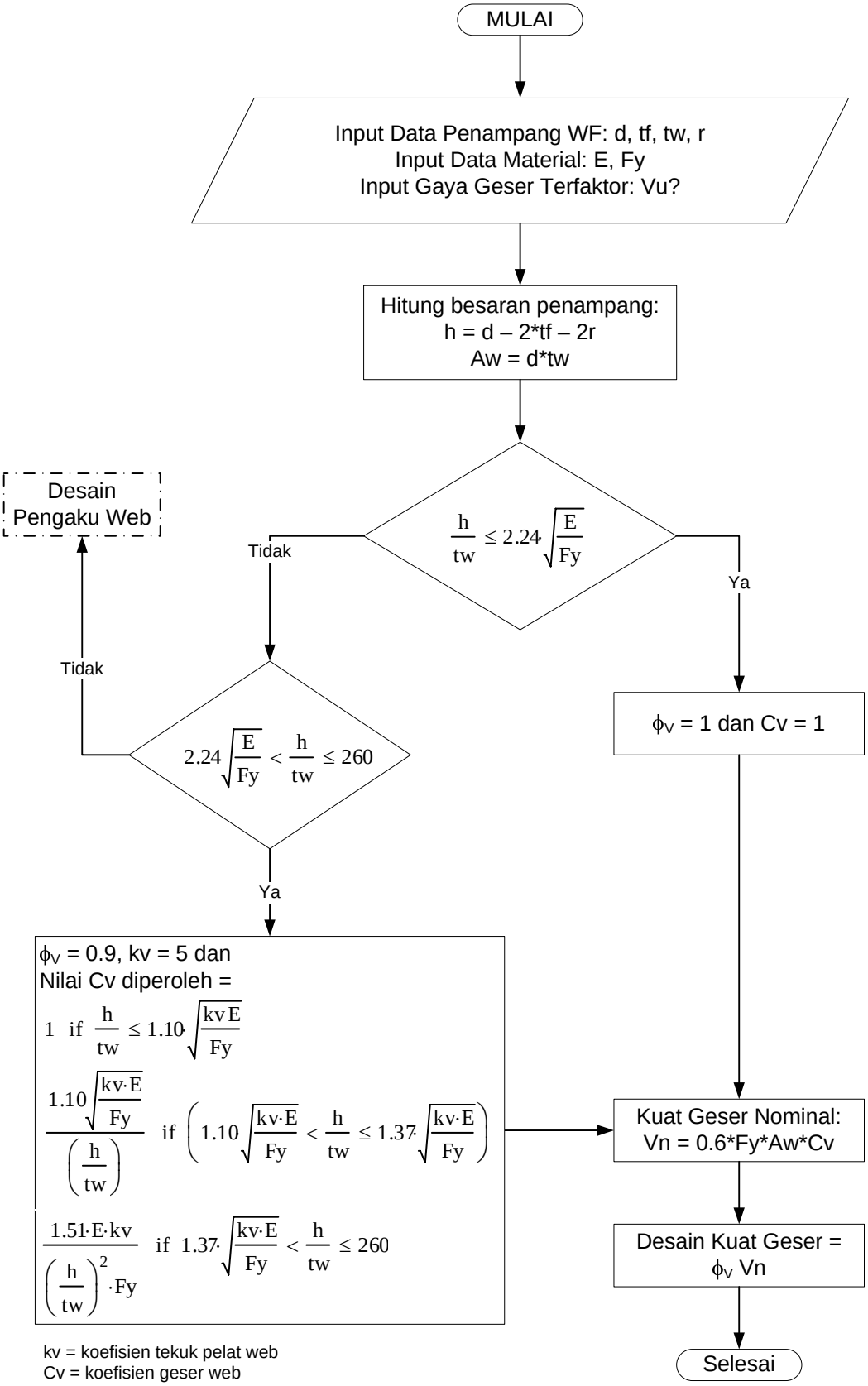
$$Fe := \frac{\pi^2 \cdot E}{\lambda^2}$$

$$Fcr := \begin{cases} \left(0.658^{\frac{Fy}{Fe}}\right) \cdot Fy & \text{if } \lambda \le 4.71 \cdot \sqrt{\frac{E}{Fy}} \\ (0.877 \cdot Fe) & \text{if } \lambda > 4.71 \cdot \sqrt{\frac{E}{Fy}} \end{cases}$$

$$Rasio := \begin{cases} \frac{Pu}{\phi c \cdot Pn} + \frac{8}{9} \cdot \frac{Mu}{\phi b \cdot Mn} & \text{if } \frac{Pu}{\phi c \cdot Pn} \ge 0.2 \\ \frac{Pu}{2\,\phi c \cdot Pn} + \frac{Mu}{\phi b \cdot Mn} & \text{if } \frac{Pu}{\phi c \cdot Pn} < 0.2 \end{cases}$$

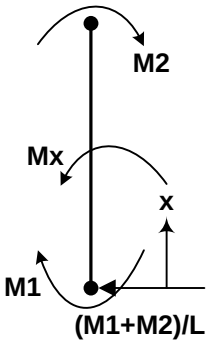
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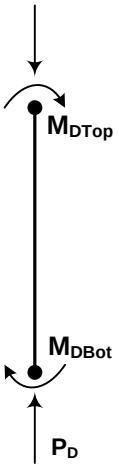
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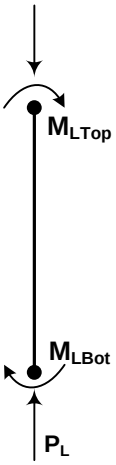
kv = koefisien tekuk pelat web
Cv = koefisien geser web

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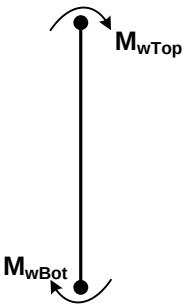




BEBAN MATI



BEBAN HIDUP



BEBAN ANGIN