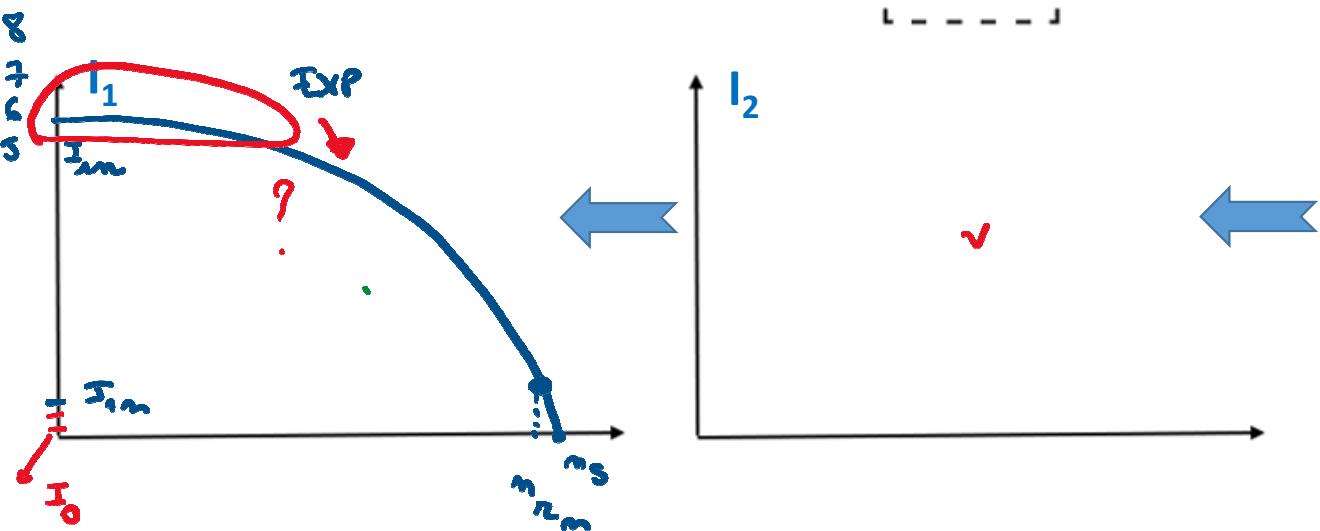
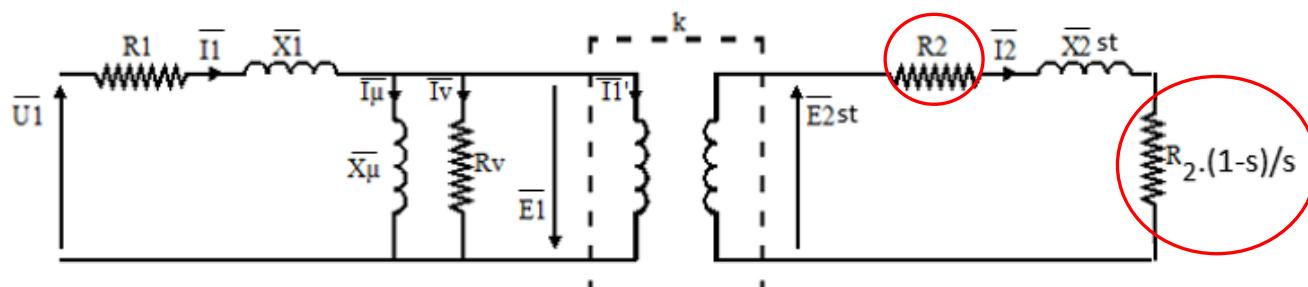
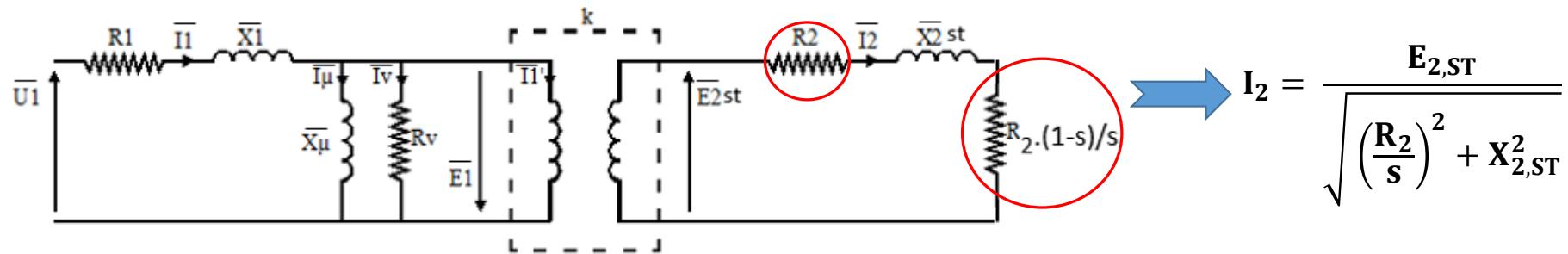


2.14 Stroom-toerentalkarakteristiek

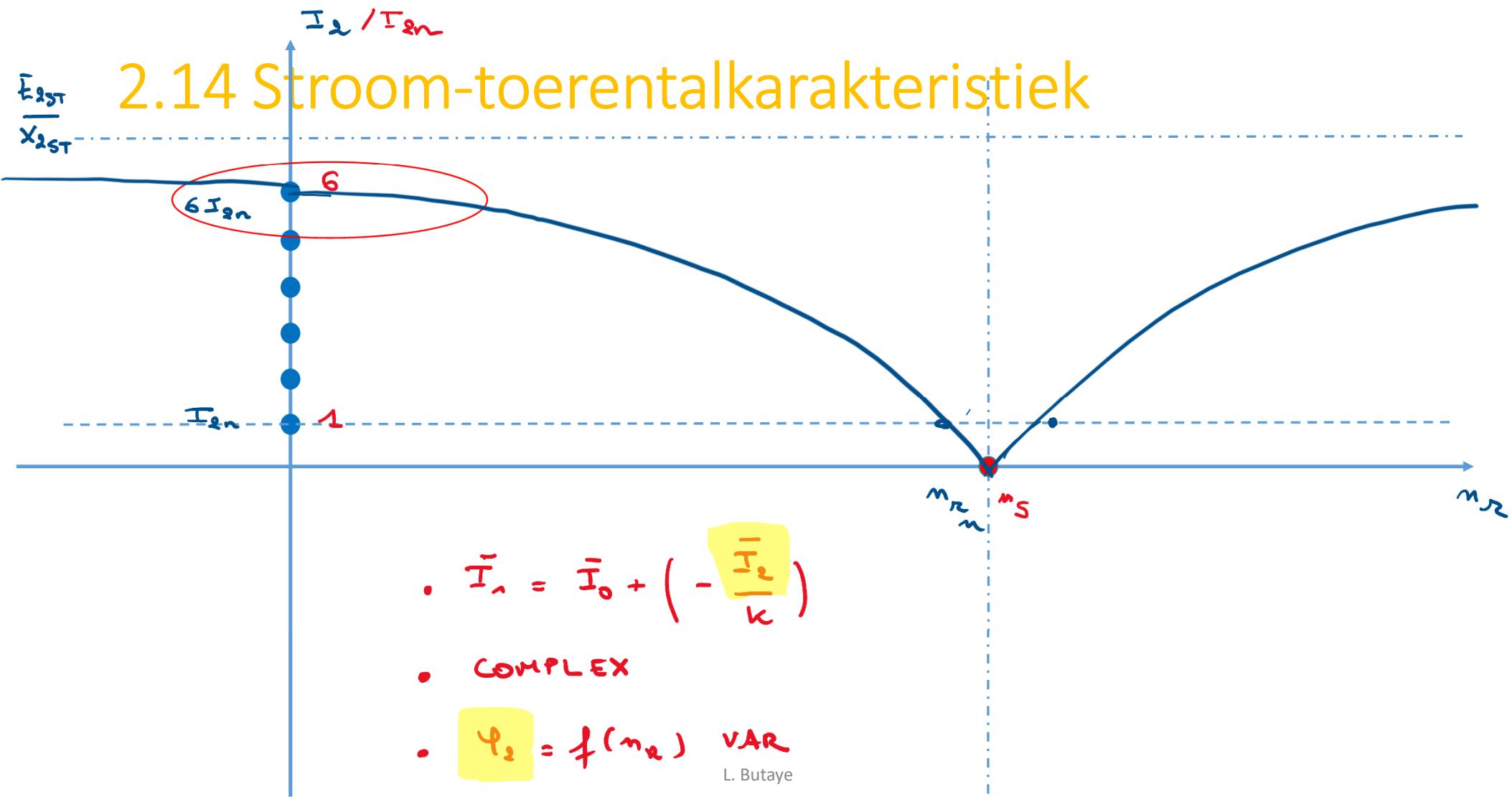


2.14 Stroom-toerentalkarakteristiek



Bijzondere punten

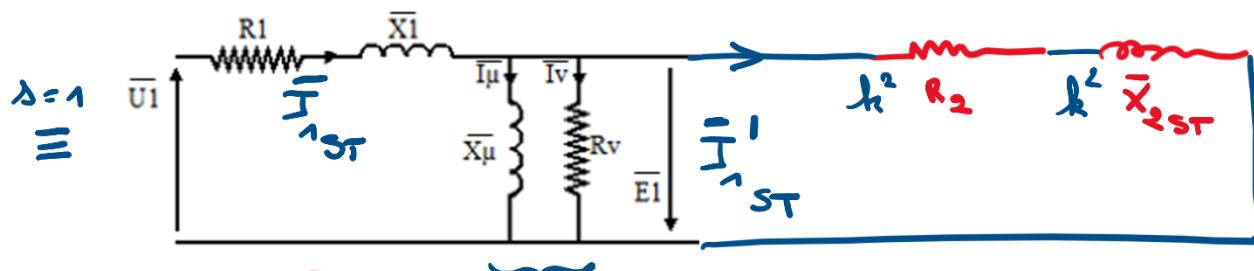
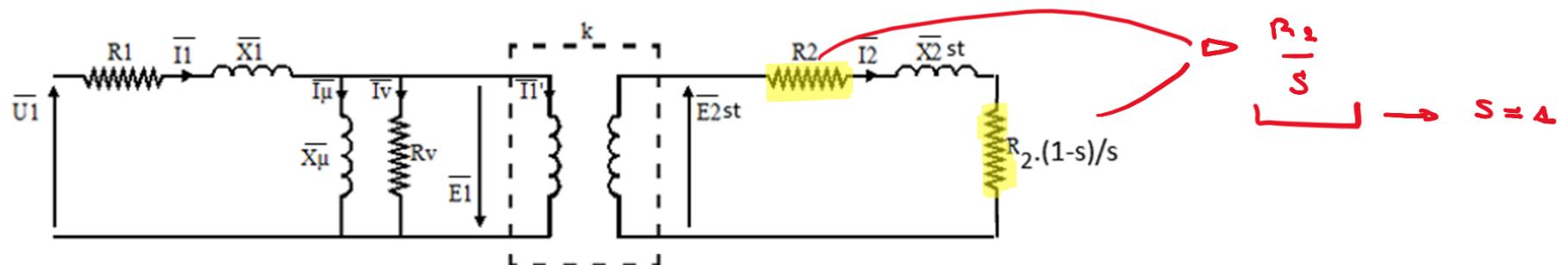
2.14 Stroom-toerentalkarakteristiek



- $\bar{I}_2 = \bar{I}_0 + \left(- \frac{\bar{I}_e}{k} \right)$
- COMPLEX
- $\Psi_2 = f(n_2) \text{ VAR}$

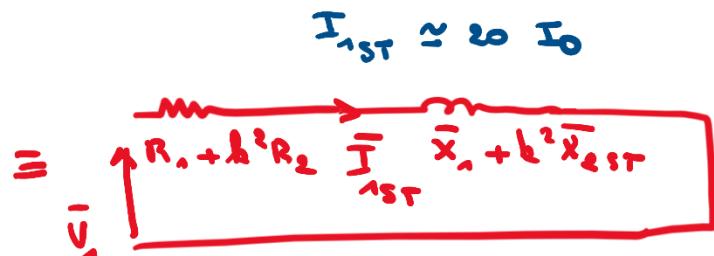
L. Butaye

2.14 Stroom-toerentalkarakteristiek



$$\text{GROOTTE} \\ I_{1st} = \frac{4}{5} I_m$$

$$I_m = \frac{2}{3} I_0$$



2.14 Stroom-toerentalkarakteristiek

$$I_{1,ST} = \frac{U_1}{\sqrt{(R_1 + k^2 \cdot R_2)^2 + (X_1 + k^2 \cdot X_{2,ST})^2}}$$

① → DIRECTE buisloop

buitenkant blik

M_z ~ U₁²
L ~ M_T ?

② Noemr ↑ → R₁ ↑

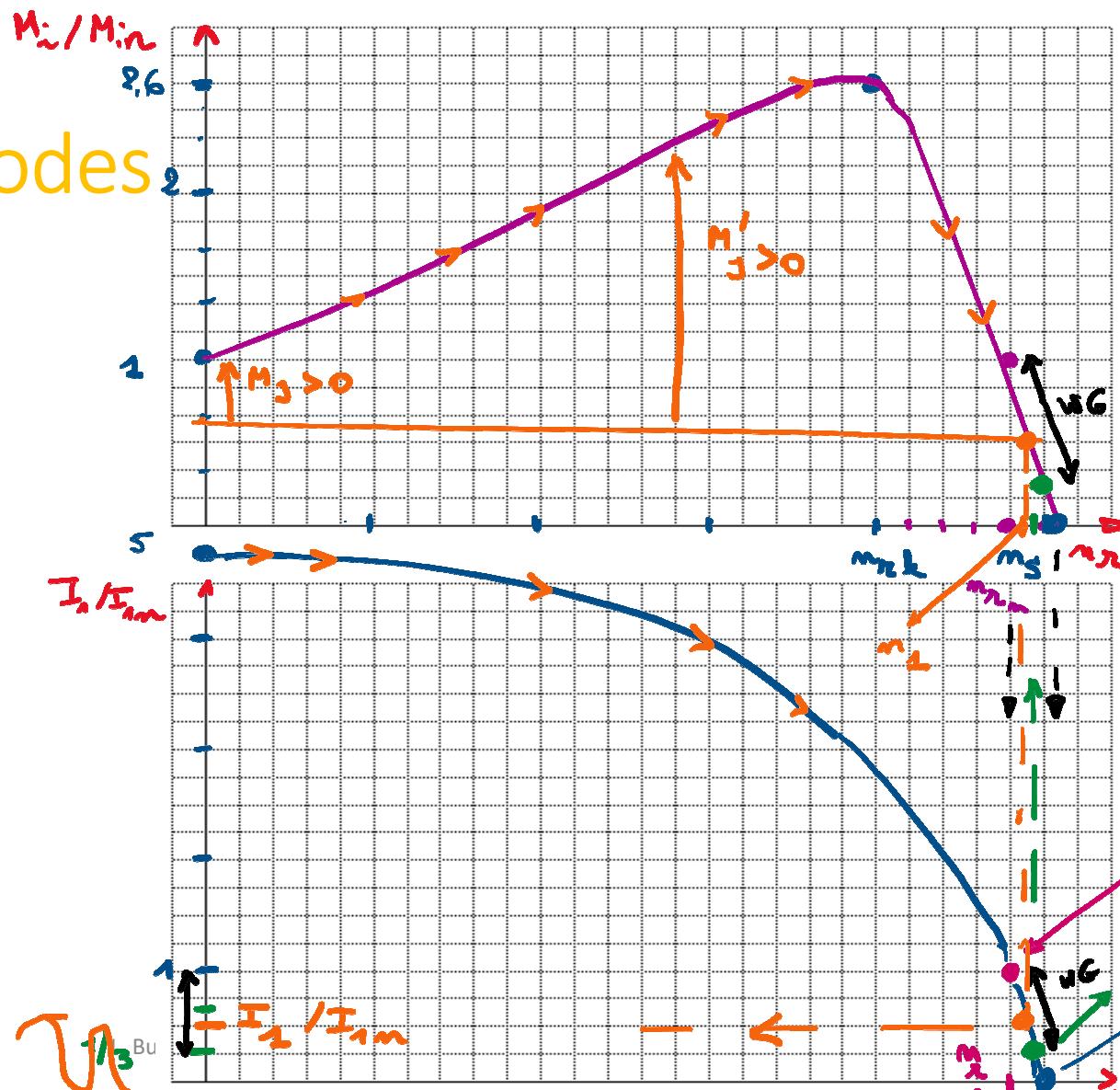
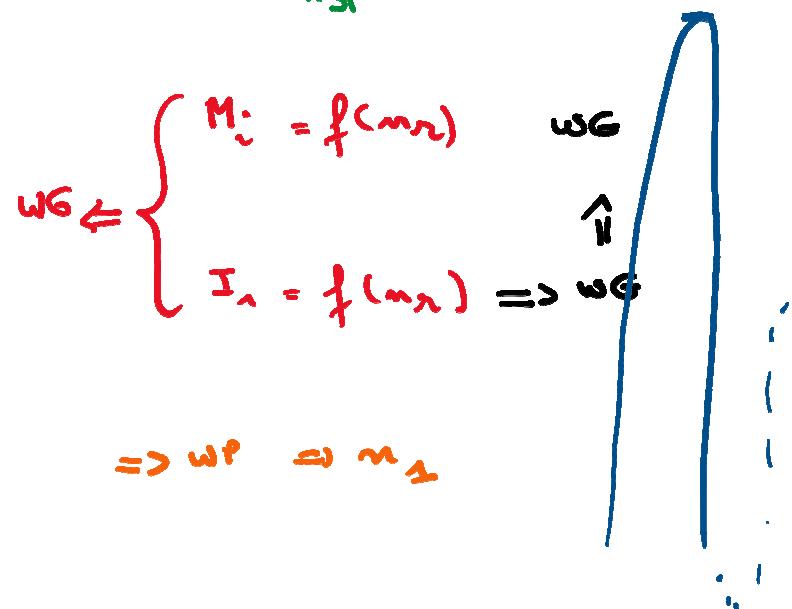
→ R₂ ↑ SM → M_z ↑

2.15 Aanloopmethodes

2.15.1 Directe aanloop

klein vermogen

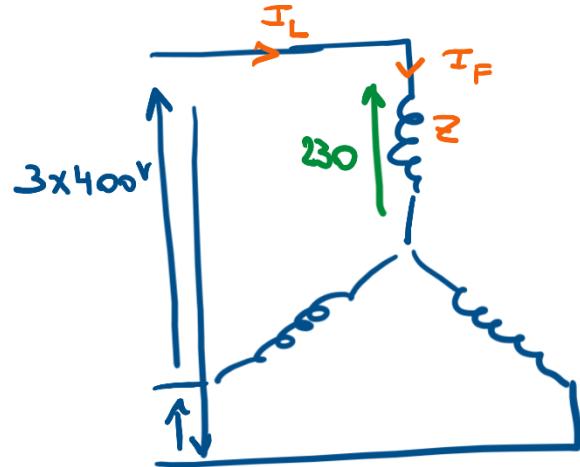
I_{avg}



2.15 Aanloopmethodes

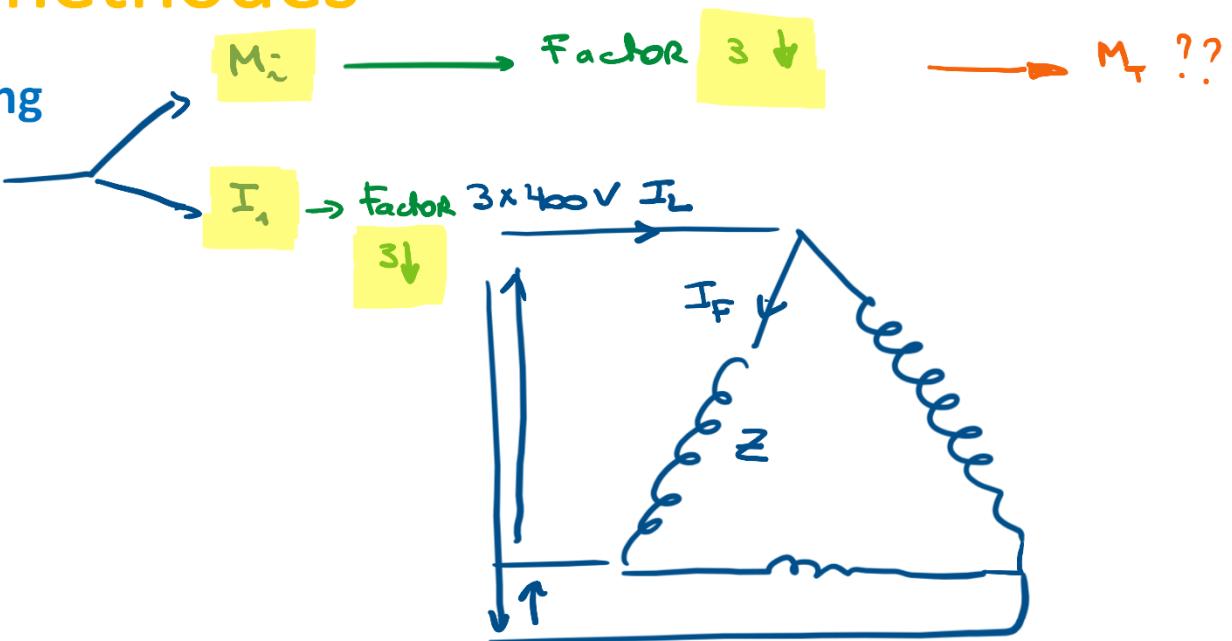
2.15.2 Verlaagde spanning

2.15.2.1 Ster-driehoek



$$U_1 \quad \sqrt{3} \longrightarrow M_i \quad 3$$

$$I_F = \frac{230}{Z} \longrightarrow I_L = I_F$$



$$I_F = \frac{400}{Z} \longrightarrow I_L = \sqrt{3} \cdot \frac{400}{Z} = \sqrt{3} \cdot \frac{230}{Z}$$

L. Butaye

2.15 Aanloop

2.15.2 Verlaagde spann

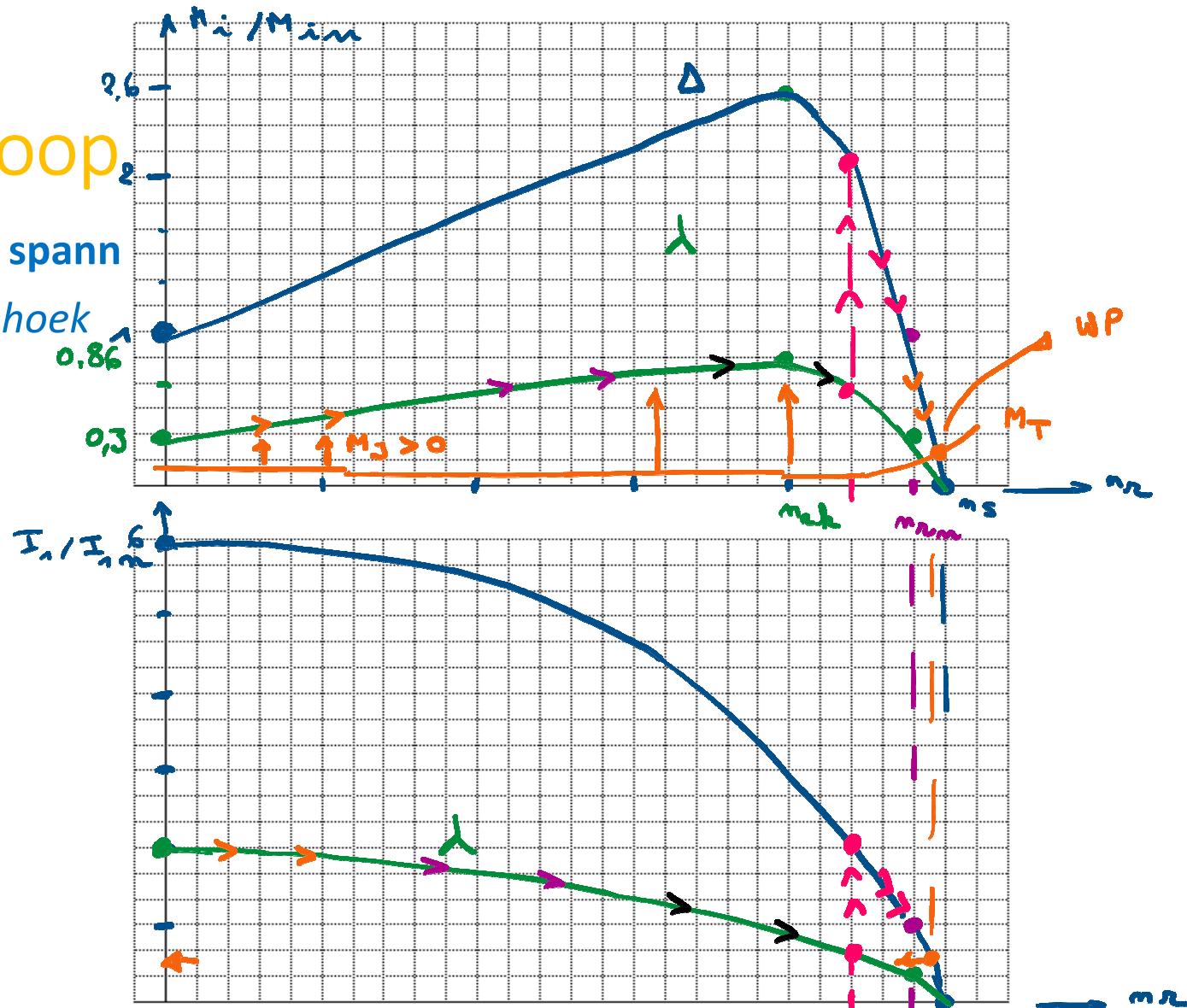
Factor ζ 2.15.2.1 Ster-driehoek

① STEA

$$I_n = f(m_n)$$

② Δ

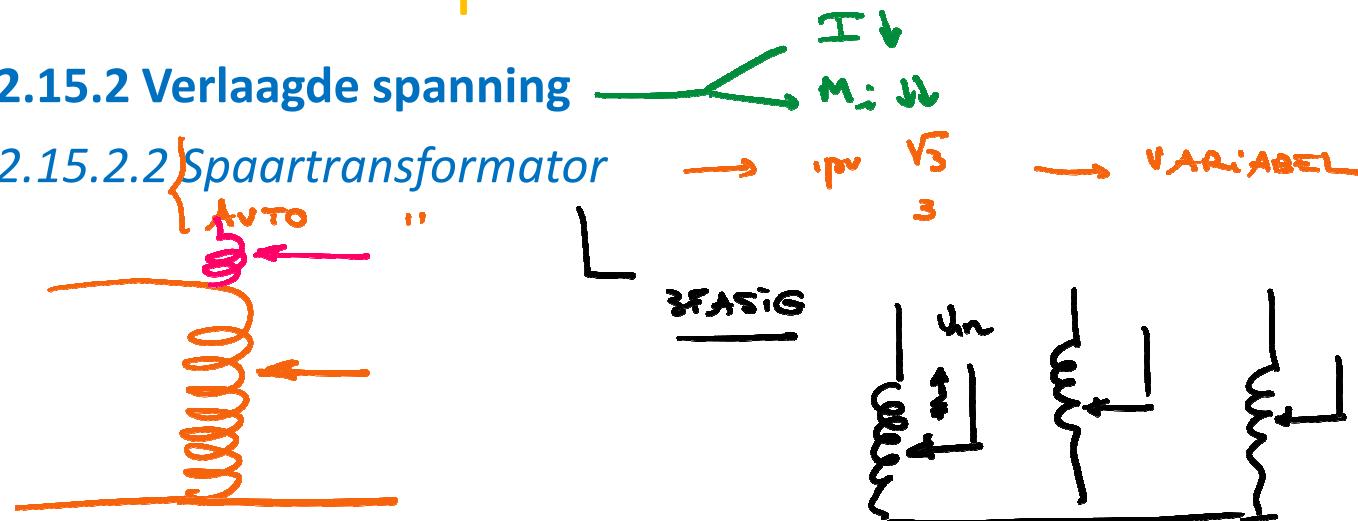
③ opn m_f ??



2.15 Aanloopmethodes

2.15.2 Verlaagde spanning

2.15.2.2 Spaartransformator



2.15 Aanloopmethodes

2.15.2 Verlaagde spanning

2.15.2.3 Statoraanzetweerstanden

$$P \sim I^2$$

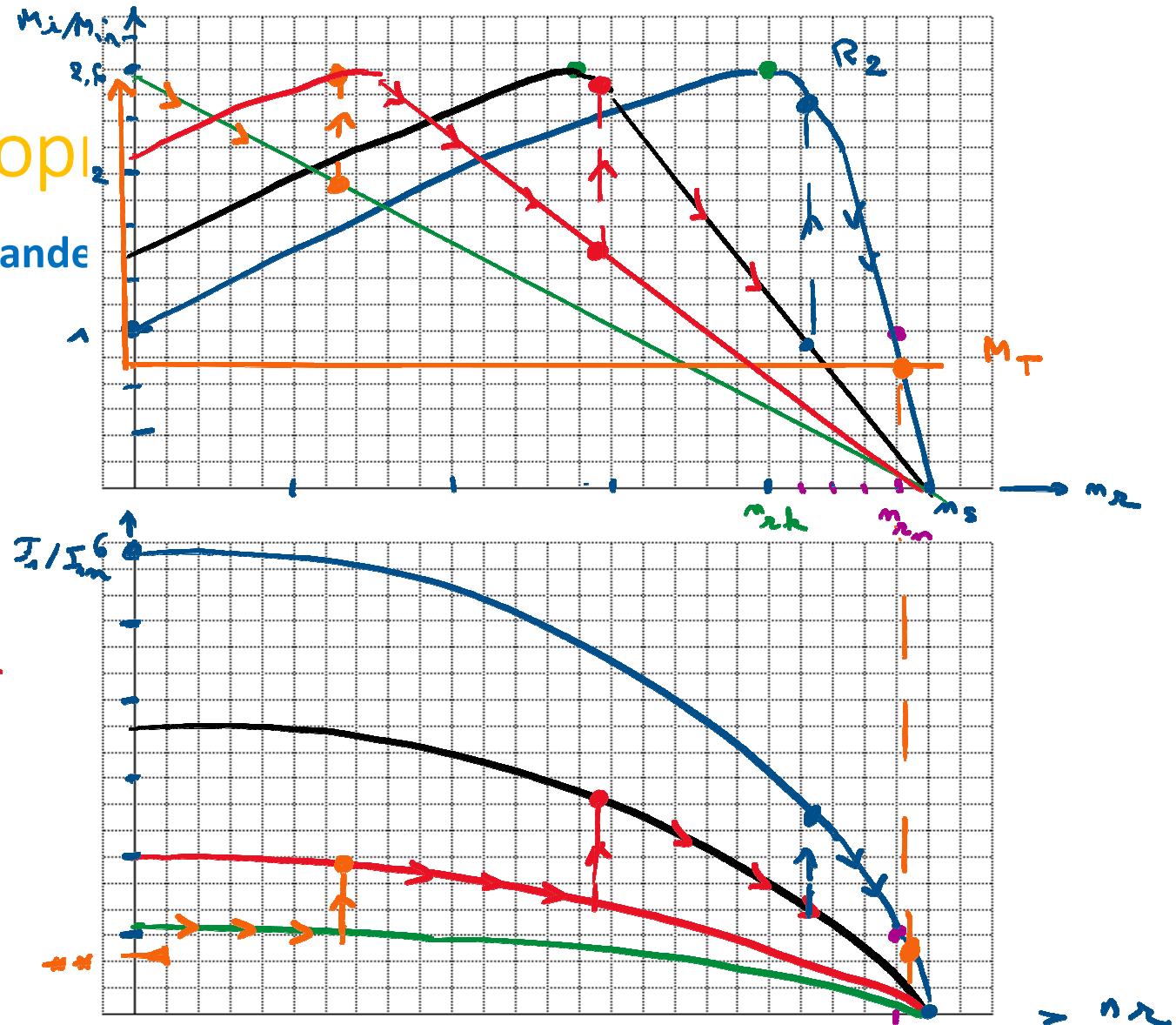
2.15 Aanloop

2.15.3 Rotorweerstande

\downarrow
 SM
 \downarrow
 $R_2 \uparrow$
 \downarrow

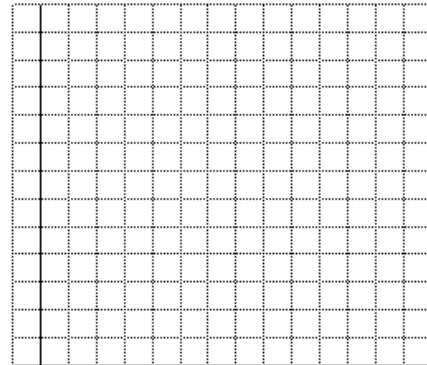
$\left\{ \begin{array}{l} J_n \propto \\ M_a \uparrow \\ \alpha \approx c^k \end{array} \right.$

- 1) R_2
- 2) $R_2 + R_2$ $\left\{ \begin{array}{l} m_s = \\ s_k \approx \end{array} \right.$
- 3) $R_2 + R_2 + R_2$
- 4) $s_k = 1$

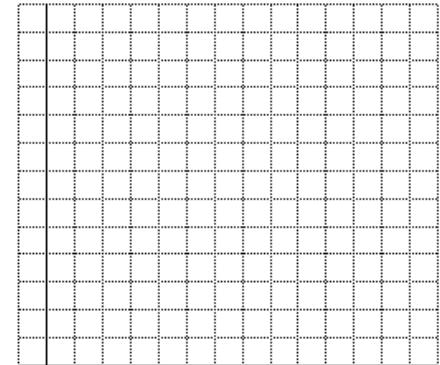


2.16 Dubbelkooirotor-stroomverdringingsrotor

2.16.0 Inleiding



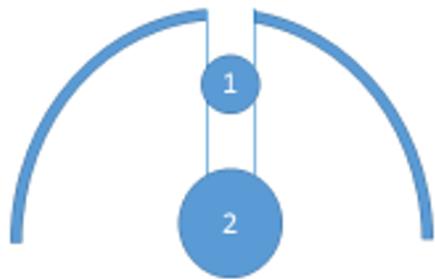
Standaardmotor



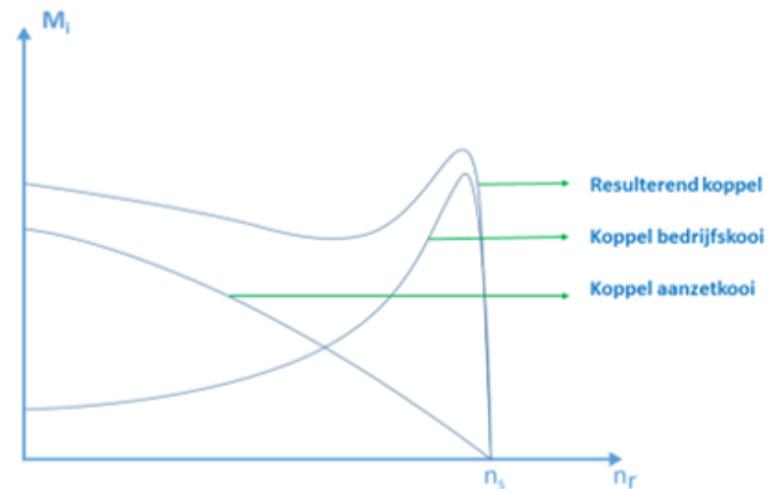
Weerstandsmotor

2.16 Dubbelkooirotor-stroomverdringingsrotor

2.16.1 Dubbelkooirootor



1 : Buitenste kooi, bovenkooi of startkooi
2 : Binnenste kooi, onderkooi of bedrijfskooi



2.16 Dubbelkooirotor en stroomverdringingsrotor

2.16.2 Stroomverdringingsrotoren



