



$$+E_1 + R_1 J_0 - R_1 J_A - R_3 (J_A + J_B) = 0 \dots (A)$$

$$+E_2 - R_4 J_B - R_3 (J_A + J_B) = 0 \dots (B)$$

$$+1,5 + 3,0 \cdot 1,5 - 3,0 \cdot J_A - 6,0 (J_A + J_B) = 0 \dots (A)$$

$$12 - 2,0 J_B - 6,0 (J_A + J_B) = 0 \dots (B)$$

$$9,0 J_A + 6,0 J_B = 6,0 \quad J_A \approx -0,67 \text{ A}$$

$$6,0 J_A + 8,0 J_B = 12 \quad J_B = 2,0 \text{ A}$$

$$J_4 = J_B \rightarrow \underline{J_4 = 2,0 \text{ A}}$$