

To determine the values of J_1, J_2, J_3 we use the following conditions:

I. For the first condition (for J_1) we have:

$$J_1 + J_2 - J_3 = 0$$

II. For the second condition (for J_2) we have:

$$E_1 = J_1 r_1 + J_3 r_3$$

III. For the third condition (for J_3) we have:

$$-E_2 = J_2 r_2 - J_3 r_3$$