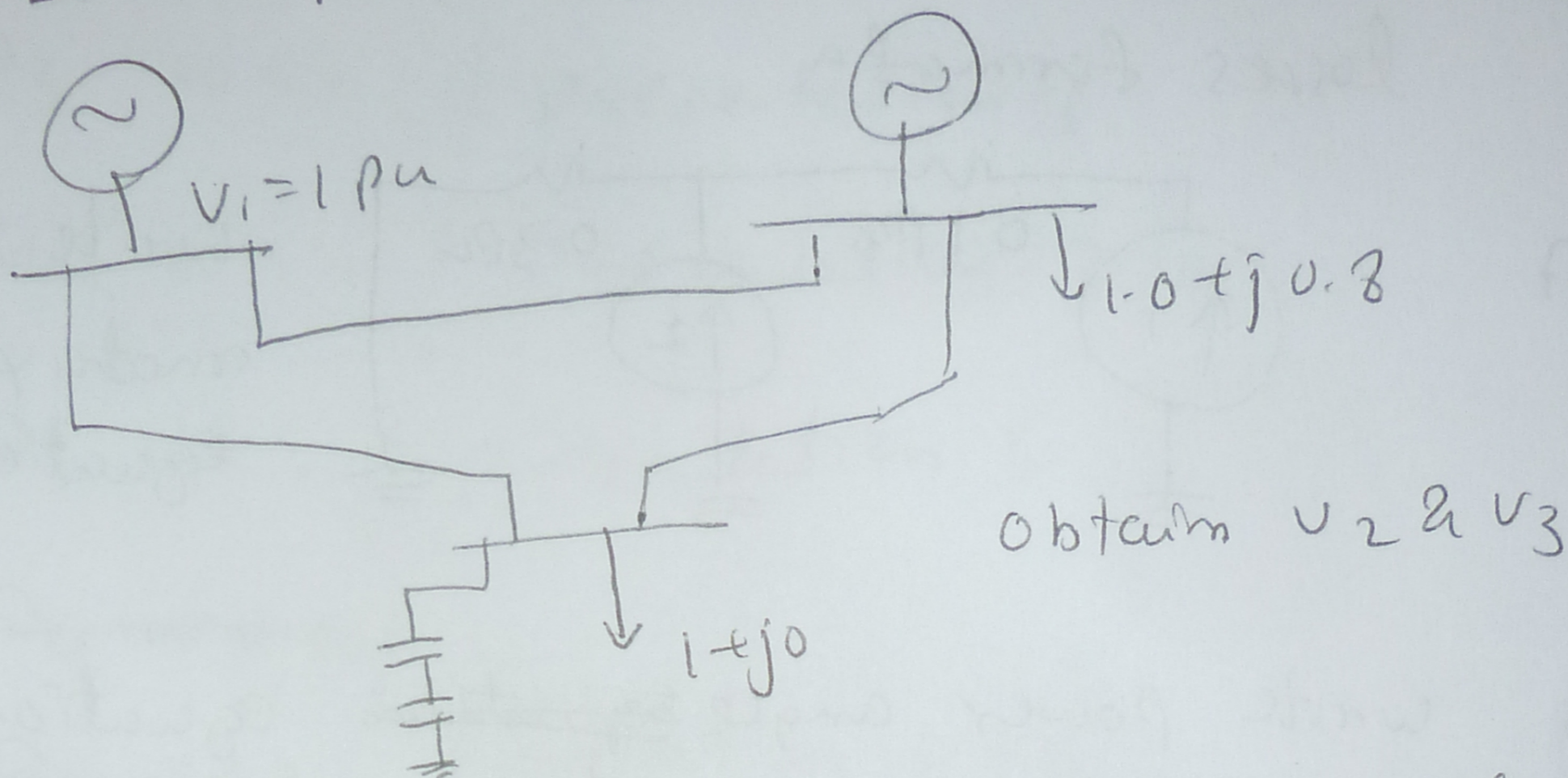


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Iqy Technical college

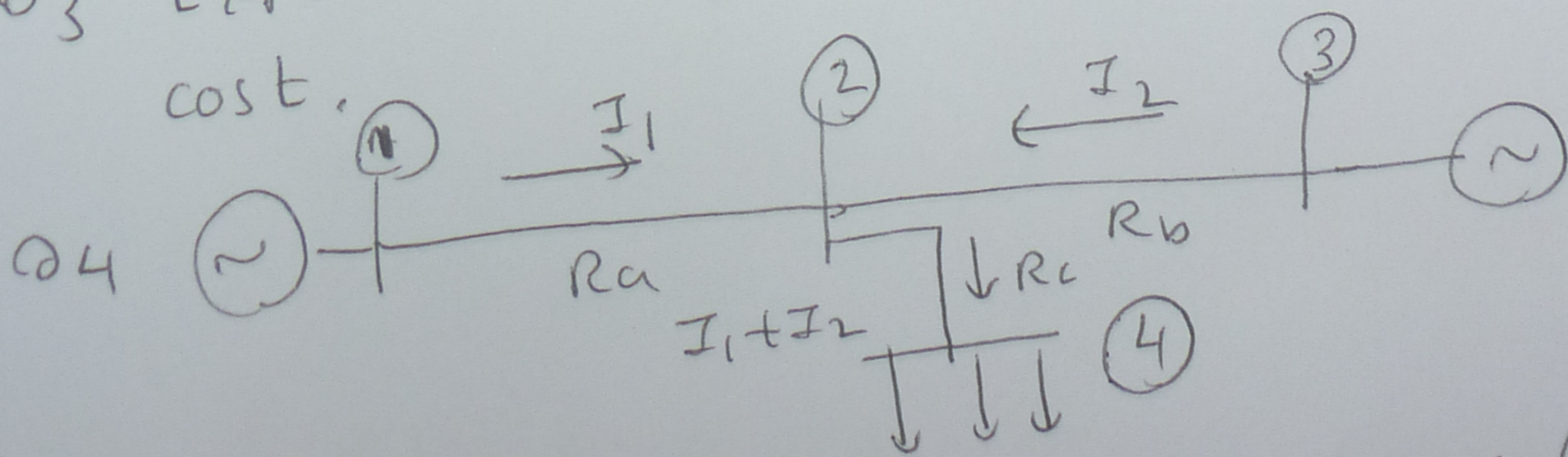
BAE 505 power system optimization

Q1 A 120kV power system is shown $z = 6.912 + j34 \Omega$



Q2 The Load flow data for simple power system is given. The voltage magnitude at bus 2 is to be maintained. The maximum & minimum reactive power limits of bus 2 are 0.35 & 0.0 pu respectively. Find load flow by Newton Raphson method.

Q3 Explain the concept of incremental production cost.

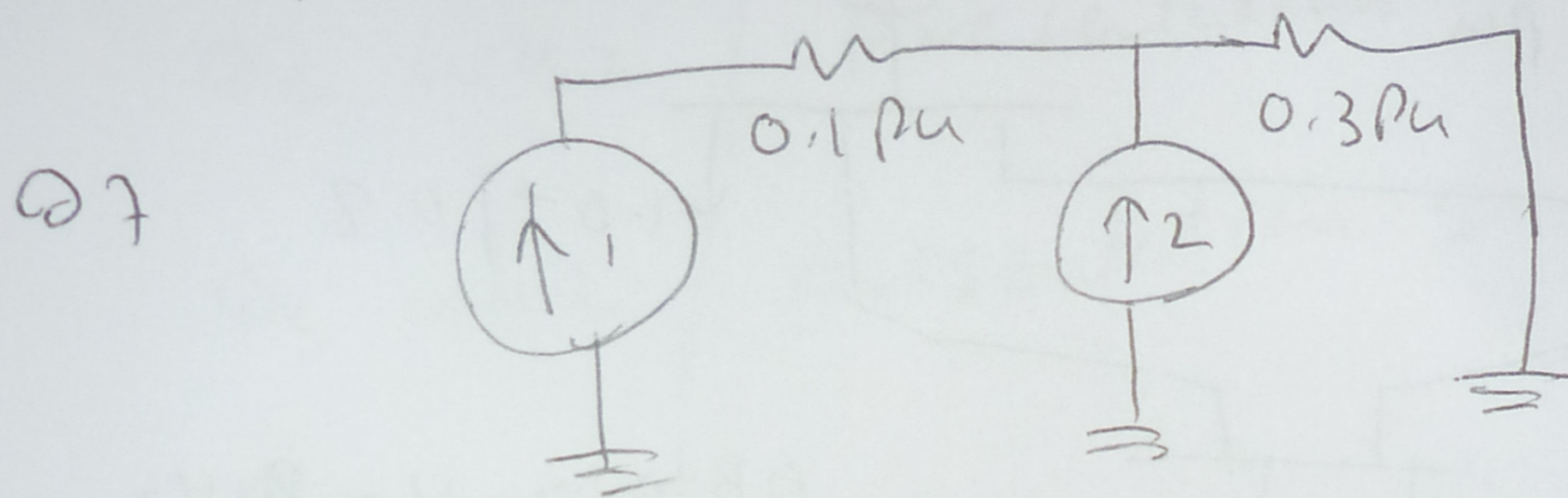


Q4 Find the method of Line loss modelling

RAESOS

Q5 Describe the calculation of coefficients by Kron's method.

Q6 Describe the development of transmission losses formula



Write the matrix equation.

Q8 Write power angle ~~equation~~ equation.

Q9 Write swing equation.

Q10 Write solution procedure for dispatch problem