

EE504P – S03 Assignment 10

Assigned: Lecture 32

Due: Lecture 35

From Lecture 32, you were given:

$$|I_{r_2}|^2 = \left[ \frac{I_{s_2}(Z_{s_2} + m Z_{L_2})}{Z_{r_2} + (1-m)Z_{L_2}} \right]^2$$

It was claimed that:

$$m = \frac{-B \pm \sqrt{B^2 - 4AC}}{2A}$$

Evaluate: A, B and C from the top equation and show that only one of the solutions is valid.