Due October 30 2020

Let us reconsider the first three power systems in homework 4. We will assume DC Power-flow method and let us apply linear state estimation to estimate the system state given the measurements as specified.

a) System 1) $P21 = 0.25$, $P23 = 0.5$, and $P13 = 0.1$.

b) System 1) $P21 = 0.2$, $P23 = 0.55$, and $P13 = 0.12$.

c) System 2) $P12 = 0.5$, $P13 = 0.6$, $P32 = 0.22$, and $P23 = -0.2$.

d) System 2) $P21 = -0.45$, $P31 = -0.55$, $P32 = 0.2$, and $P23 = -0.22$.

e) System 3) $P21 = 0.4$, $P13 = 0.2$, $P31 = -0.17$, $P14 = 0.34$, $P23 = 0.6$, $P32 = -0.65$, and $P34 = 0.2$.