



bus (1) slack V=110 bus@ PQ bus P2 sch= Pg-Pd= -60 = -0.6P4 P2 sch= -35 = -3.5P4 bus 3 PQ bus P3sch= - 70 = 0.7p4 P3sch= -42 = -0.42p4 bus 4) PQ bus pasch= -80 = 0.8P4 Qusch= -50 = -0.5Pu bus @ PV bus Pssch= Pg-Pd= 190_65 = 1-28 P4 Vs= 110 rusing Gauss Siedelin 1 iteration V2 = 1 [P2sch-JQ2Sch - Y21 V1 - Y23 V3 - Y24 V4 - Y25 V5] $= -0.6049 + 10.6441 \left[0.1584 + 10.0931 \right]$ $\sqrt{200} = \sqrt{2} + \times \left(\sqrt{2} - \sqrt{2} \right) = 1 + 1.6(0.6049 + 10.6441) - 1 -0.3466 + 10.1491$ V3 = 1 [P35ch-JQ3 Sch - Y3(V1-Y32V2-Y34V4-Y35 V5] V301c= V3+ X(V3-V3) V4= 1 [P4sch-JQ4sch-Y41V1-Y48 12-Y45 V3-Y45 Vs]= Vy acc = Vy + x (Vy - Vy) Qs=-Im[Vs[Y5/V1+Y52V2+Y53V3+Y54V4+Y55V5]]

