1 Fundamental Theorem of Galois Theory II

Theorem 1.1. For $P \in I(K, L)$ suppose P : K is a normal extension. Then $G_P \triangleleft G$ and $\operatorname{Gal}_K P \cong G/G_P$.

Lemma 1.2. Let K - P - L be a tower of fields and $g \in \operatorname{Aut} L$. Then $G_{gP} = gG_Pg^{-1}$.