

Theorem 12.5 Let T and Q_i be disjoint index sets and W_i be a subset of Q_i for $1 \leq i \leq k$, where $k \geq 2$. Assume that there exist at least two i such that $W_i \neq \emptyset$. If

$$\perp (X_{Q_i}, 1 \leq i \leq k) \mid X_T,$$

then

$$\perp (X_{W_i}, 1 \leq i \leq k) \mid X_T, (X_{Q_i - W_i}, 1 \leq i \leq k).$$