Filled Graphs

1 Why

TODO Needed for perfect elimination orderings.

2 Definition

An ordered graph is *filled* or *monotone transitive* if all higher neighborhoods induce complete subgraphs.

3 Notation

Let $G_\sigma = (V, E, \sigma)$ be an ordered graph. G_σ is filled if

$$u, v \in \overset{+}{\mathsf{adj}}(v) \implies \{u, v\} \in E.$$