



Ordered Undirected Graphs

1 Why

TODO Need for perfect elimination orderings.

2 definition

An *ordering* of an undirected graph is a numbering of its vertices. An *ordered undirected graph* is a triple: the first two objects as an ordered pair are an undirected graph and the third object is a numbering of this graphs vertices.

3 Notation

Let $G = (V, E)$ be an undirected graph with $n = |V|$. Let $\sigma : \{1, 2, \dots, n\} \rightarrow V$ be a numbering of V . We denote the ordered graph consisting of G and σ as $G_\sigma = (V, E, \sigma)$.