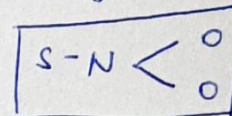
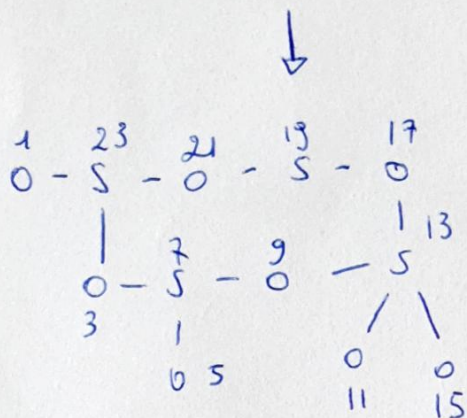


Crucial topological element:



Purpose: reduce the granularity of the bond adjacency list by eliminating all C, N and H atoms. Whenever an N atom is deleted, its "O" neighbors (if any) should be linked to the nearest S.

Strategy: begin DFS from S; if either H or O is encountered, return; if O, add O to S's neighbor list and S to O's. Iterate over all S atoms.



↓ Scale up this reasoning to the DGEBA/DDs sys

There's only 1 problem: while there is a 1-to-1 map between DDS and S atoms, there isn't one between DGEBA and O atoms.

no Associate each DGEBA molecule with ~~its~~ central C atom, which is the only one bonded to 4 C atoms.

Purpose: Compact DGEBA into a single vertex and DDS into a single vertex, while preserving the connectivity of the network.

↑
Cross-link