

A simplicial complex is a set of simplices Σ , verifying the following conditions: (a) if $\sigma \in \Sigma$, then any s -face of σ belongs to Σ ; (b) if $\sigma, \tau \in \Sigma$, then either $\sigma \cap \tau = \emptyset$, or $\sigma \cap \tau$ is an s -face of σ and τ . Geometric carrier $[\Sigma]$ is the pointset union of simplices in Σ .