

# Two Graph Vertex Partitioning Algorithms for Part Consolidation in Axiomatic Design

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# **1 Graph Theory**

This section presents the concepts, definitions, and theorems from the field of graph theory that are needed in the development of the two algorithms. This material is primarily taken from the textbooks used [1] and class notes compiled by the author during his undergraduate and graduate graph theory classes at SJSU.

## References

- [1] G. Chartrand and P. Zhang. *A First Course in Graph Theory*. Dover Publications, Mineola, New York, 2012.