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Each graph of the form  $(V, E)$  where  $V = \{v_1, \dots, v_n\}$  and  $E \subseteq V \times V$  is called a spanning subgraph. Some examples are given in Figure 1.3. a graph a subgraph an induced subgraph a spanning subgraph Fig. 1.3.

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Graph and Network Algorithms. Graphs model the connections in a network and are widely applicable to a variety of physical, biological, and information systems. You can use graphs to model the neurons in a brain, the flight patterns of an airline, and much more. The structure of a graph is comprised of " nodes " and " edges " .

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This is a text about optimization algorithms for problems that can be formulated on graphs and networks. The first edition of this text was unique in providing a comprehensive, cohesive, and clear treatment of this body of knowledge. Many new results and applications have appeared in the literature since that time.

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In pattern recognition, the k-nearest neighbors algorithm (k-NN) is a non-parametric method proposed by Thomas Cover used for classification and regression. In both cases, the input consists of the k closest training examples in the feature space. The output depends on whether k-NN is used for classification or regression: . In k-NN classification, the output is a class membership.