

# Introduction to Graph Theory 2nd Edition West Solutions Manual

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## 3.MATCHINGS AND FACTORS

### 3.1. MATCHINGS AND COVERS

**3.1.1.** *Examples of maximum matchings.* In each graph below, we show a matching in bold and mark a vertex cover of the same size. We know that the matching has maximum size and the vertex cover has minimum size because the size of every matching in a graph is at most the size of every vertex cover in the graph.



**3.1.2.** The minimum size of a maximal matching in  $C_n$  is  $\lfloor n/2 \rfloor$ . Suppose that  $C_n$  has a matching of size  $k$ . The  $n - 2k$  unmatched vertices fall into  $k$  “buckets” between matched edges around the cycle. The matching is maximal if and only if none of the buckets contain two vertices. By the pigeonhole principle, there must be some such bucket if  $n - 2k \geq k + 1$ ; hence a matching of size  $k$  cannot be maximal if  $k \leq (n - 1)/3$ .

On the other hand, if  $n - 2k \leq k$  and  $k \leq n/2$ , then we can match two vertices and skip one until we have skipped  $n - 2k$ , which avoids having two vertices in one bucket. Hence  $C_n$  has a maximal matching of size  $k \leq n/2$  if and only if  $3k \geq n$ . We conclude that the minimum size of a maximal matching in  $C_n$  is  $\lfloor n/3 \rfloor$ .

**3.1.3.** If  $S \subseteq V(G)$  is saturated by some matching in  $G$ , then  $S$  is saturated by some maximum matching. If  $M$  saturates  $S$ , then the characterization of maximum matchings implies that a maximum matching  $M'$  can be obtained from  $M$  by a sequence of alternating path augmentations. Although edges may be lost in an augmentation, each augmentation continues to saturate all saturated vertices and enlarges the saturated set by 2. Thus  $S$  remains saturated in  $M'$ .

When  $S \subseteq V(G)$  is saturated by some matching in  $G$ , it need not be true that  $S$  is saturated by every maximum matching. When  $G$  is an odd cycle, all maximum matchings omit distinct vertices.

**3.1.4.** Let  $G$  be a simple graph.

$\alpha(G) = 1$  if and only if  $G$  is a complete graph. The independence number is 1 if and only if no two vertices are nonadjacent.

$\alpha'(G) = 1$  if and only if  $G$  consists of isolated vertices plus a triangle or nontrivial star. Deleting the vertices of one edge in such a graph leaves no edges remaining. Conversely, suppose that  $\alpha'(G) = 1$ , and ignore the isolated vertices. Let  $v$  be a vertex of maximum degree. If every edge is incident to  $v$ , then  $G$  is a star. Otherwise, an edge  $x$  not incident to  $v$  shares an endpoint with every edge incident to  $v$ . Since  $x$  has only two endpoints,  $d(v) = 2$ , and there is only one such edge  $x$ . Thus  $G$  is a triangle.

$\beta(G) = 1$  if and only if  $G$  is a nontrivial star plus isolated vertices. The vertex cover number is 1 if and only if one vertex is incident to all edges.

$\beta'(G) = 1$  if and only if  $G = K_2$ . Since every edge covers two vertices,  $\beta'(G) = 1$  requires that  $\alpha(G) = 2$ , and indeed  $\beta'(K_2) = 1$ .

**3.1.5.**  $\alpha(G) \leq \frac{|V(G)|}{2}$  for every graph  $G$ . Form an independent set  $S$  by iteratively selecting a remaining vertex for  $S$  and deleting that vertex and

all its neighbors. Each step adds one vertex to  $S$  and deletes at most  $1 + d(v) + 1$  vertices from  $G$ . Hence we perform at least  $\alpha(G)/\beta(G) + 1$  steps and obtain an independent set at least that big.

number  $k$ , then  $\alpha'(T) =$

$n - k$ . The vertices outside a maximum independent set form a vertex cover of size  $n - k$ . Since trees are bipartite, the König-Egervary Theorem then applies to yield  $\alpha'(T) = \beta(T) = n - \alpha(T) = n - k$ .

**3.1.7.** A graph  $G$  is bipartite if and only if  $\alpha(N) = \beta(N)$  for every subgraph  $N$  having no isolated vertices. If  $G$  is bipartite, then every subgraph  $N$  of  $G$  is bipartite, and by König's Theorem the number of edges of  $N$  needed to cover  $V(N)$  equals  $\alpha(N)$  if  $N$  has no isolated vertices. If  $G$  is not bipartite, then  $G$  contains an odd cycle  $N$ , and this subgraph  $N$  has no isolated vertices and requires  $\alpha(N) + 1$  edges to cover its vertices.

**3.1.8.** Every tree  $T$  has at most one perfect matching.

**Proof 1** (contradiction). Let  $M$  and  $M'$  be perfect matchings in a tree. Form the symmetric difference of the edge sets,  $M \oplus M'$ . Since the matchings are perfect, each vertex has degree 0 or 2 in the symmetric difference, so every component is an isolated vertex or a cycle. Since the tree has no cycle, every vertex must have degree 0 in the symmetric difference, which means that the two matchings are the same.

**Proof 2** (induction). For the basis step, a tree with one vertex has no perfect matching; a tree with two vertices has one. For the induction step, consider an arbitrary tree  $T$  on  $n \geq 2$  vertices, and consider a leaf  $v$ . In any perfect matching,  $v$  must be matched to its neighbor  $w$ . The remainder of

# Introduction To Graph Theory West Solutions Manual

**Khee-meng Koh, Fengming Dong, Eng  
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## **Table of Contents Introduction To Graph Theory West Solutions Manual**

1. Understanding the eBook Introduction To Graph Theory West Solutions Manual
  - The Rise of Digital Reading Introduction To Graph Theory West Solutions Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Graph Theory West Solutions Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Introduction To Graph Theory West Solutions Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Graph Theory West Solutions Manual
  - Personalized Recommendations
  - Introduction To Graph Theory West Solutions Manual User Reviews and Ratings
  - Introduction To Graph Theory West Solutions Manual and Bestseller Lists
5. Accessing Introduction To Graph Theory West Solutions Manual Free and Paid eBooks

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    - Introduction To Graph Theory West Solutions Manual Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Introduction To Graph Theory West Solutions Manual
    - Highlighting and Note-Taking Introduction To Graph Theory West Solutions Manual
    - Interactive Elements Introduction To Graph Theory West Solutions Manual
  8. Staying Engaged with Introduction To Graph Theory West Solutions Manual
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Introduction To Graph Theory West Solutions Manual
  9. Balancing eBooks and Physical Books Introduction To Graph Theory West Solutions Manual
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Introduction To Graph Theory West Solutions Manual
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Introduction To Graph Theory West Solutions Manual
    - Setting Reading Goals Introduction To Graph Theory West Solutions Manual
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Introduction To Graph Theory West Solutions Manual
    - Fact-Checking eBook Content of Introduction To Graph Theory West Solutions Manual
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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