

CHAPTER 2

EXERCISE 2.1. Let $I(i)$ and $O(i)$ respectively denote the indegree and outdegree for node i . Then the required information for the network in Figure 2.26(a) is:

| i | $I(i)$ | $O(i)$ | $A(i)$ |
|-----|--------|--------|------------------------------|
| 1 | 1 | 3 | $\{(1, 2), (1, 3), (1, 5)\}$ |
| 2 | 1 | 3 | $\{(2, 4), (2, 5), (2, 7)\}$ |
| 3 | 1 | 3 | $\{(3, 5), (3, 8), (3, 6)\}$ |
| 4 | 1 | 1 | $\{(4, 7)\}$ |
| 5 | 4 | 2 | $\{(5, 8), (5, 9)\}$ |
| 6 | 1 | 1 | $\{(6, 8)\}$ |
| 7 | 2 | 2 | $\{(7, 5), (7, 9)\}$ |
| 8 | 3 | 1 | $\{(8, 9)\}$ |
| 9 | 3 | 1 | $\{(9, 1)\}$ |

Directed walk of six arcs : 4-7-9-1-2-5-8.

Walk of eight arcs : 1-2-4-7-5-8-6-3-5.

Cycle of nine arcs : 1-3-6-8-5-2-4-7-9-1.

Directed cycle of seven arcs : 1-2-4-7-5-8-9-1.

This information for the network in Figure 2.26(b) is:

| i | $I(i)$ | $O(i)$ | $A(i)$ |
|-----|--------|--------|----------------------|
| 1 | 1 | 2 | $\{(1, 2), (1, 8)\}$ |
| 2 | 1 | 2 | $\{(2, 3), (2, 7)\}$ |
| 3 | 1 | 2 | $\{(3, 4), (3, 6)\}$ |
| 4 | 2 | 1 | $\{(4, 1)\}$ |
| 5 | 1 | 2 | $\{(5, 4), (5, 6)\}$ |
| 6 | 3 | 0 | \emptyset |
| 7 | 2 | 1 | $\{(7, 6)\}$ |
| 8 | 1 | 2 | $\{(8, 5), (8, 7)\}$ |

Directed walk of six arcs : 1-2-3-4-1-8-7-6.

Walk containing eight arcs : 1-2-3-4-1-8-5-6-7.

Cycle containing nine arcs : Does not exist.

Cycle containing seven arcs : Does not exist.

EXERCISE 2.3. Graph in Figure 2.26(a) : Not acyclic, not bipartite, but strongly connected. Graph in Figure 2.26(b) : Not acyclic, bipartite, not strongly connected.

EXERCISE 2.5. Figures S2.5(a), (b), and (c) respectively specify the solutions of exercises in parts in (a), (b), and (c).

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Arturo Cuomo



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implementations available in C C and Java *Smart and Digital Cities* Vitor Nazário Coelho, Igor Machado Coelho, Thays A.Oliveira, Luiz Satoru Ochi, 2019-05-16 This book presents up to date information on the future digital and smart cities In particular it describes novel insights about the use of computational intelligence techniques and decentralized technologies covering urban aspects and services cities governance and social sciences The topics covered here range from state of the art computational techniques to current discussions regarding drones blockchain smart contracts and cryptocurrencies The idealization of this material emerged with a journey of free knowledge exchange from a diverse group of authors who met each other through four different events workshops and special sessions organized with the purpose of boosting the concepts surrounding smart cities We believe that this book comprises innovative and precise information regarding state of the art applications and ideas for the future of cities and society It will surely be useful not only for the academic community but also to the industry professionals and city managers **Integration of AI and OR Techniques in Constraint Programming**

for Combinatorial Optimization Problems Willem-Jan van Hoeve, John N. Hooker, 2009-05-17 This book constitutes the refereed proceedings of the 6th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems CPAIOR 2009 held in Pittsburgh PA USA in May 2009 The 20 revised full papers and 10 extended abstracts presented together with 2 invited talks were carefully reviewed and selected from 65 submissions The papers describe current research in the fields of constraint programming artificial intelligence and operations research and present new techniques or new applications in combinatorial optimization thus exploring ways of solving large scale practical optimization problems through integration and hybridization of the fields different techniques *Defense*

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Handbook on Project Management and Scheduling Vol. 2 Christoph Schwindt,Jürgen Zimmermann,2015-01-13 Due to the increasing importance of product differentiation and collapsing product life cycles a growing number of value adding activities in the industry and service sector are organized in projects Projects come in many forms often taking considerable time and consuming a large amount of resources The management and scheduling of projects represents a challenging task and project performance may have a considerable impact on an organization s competitiveness This handbook presents state of the art approaches to project management and scheduling More than sixty contributions written by leading experts in the field provide an authoritative survey of recent developments The book serves as a comprehensive reference both for researchers and project management professionals The handbook consists of two volumes Volume 1 is devoted to single modal and multi modal project scheduling Volume 2 presents multi project problems project scheduling under uncertainty and vagueness managerial approaches and a separate part on applications case studies and information systems **Urban and Regional Transportation Modeling** Der-Horng Lee,David E. Boyce,2004-01-01 This collection in honor of David Boyce contains genuinely interesting and quality papers that reflect the diversity of interests of the honoree David Boyce has made a number of significant contributions at the interface of transportation and regional science He has been a pioneer of injecting rigor and consistency into spatial analysis The papers here both reflect the ethos of this copious body of analysis and take it further in extensions and applications It will prove to be an enduring source of ideas and insight Kenneth Button George Mason University US *Transportation Science* ,2003 *Networking-ICN ...* ,2001 **Enhanced Transportation Management on Lake Cook Road** ,2000 **IJCAI-03** International Joint Conferences on Artificial Intelligence,Mexican Society for Artificial Intelligence,2003 *Scientific and Technical Aerospace Reports* ,1995 **Internet Performance and Control of Network Systems** ,2001 *Symmetry in Engineering Sciences* Raúl Baños Navarro,Francisco G. Montoya,2019-11-21 This book presents interesting samples of theoretical and practical advances of symmetry in multidisciplinary engineering applications It covers several applications such as accessibility and traffic congestion management path planning for mobile robots analysis of shipment service networks fault diagnosis methods in electrical circuits and electrical machines geometrical issues in architecture geometric modeling and virtual reconstruction design of

noise detectors filters and segmentation methods for image processing and cyclic symmetric structures in turbomachinery applications to name but a few The contributions included in this book depict the state of the art in this field and lay the foundation for the possibilities that the study of symmetry has in multidisciplinary applications in the field of engineering

Parallel Algorithms for Digital Image Processing, Computer Vision and Neural Networks Ioannis

Pitas,1993-04-09 World renowned contributors present papers concerning algorithms used on the latest generation of parallel machines MIMD Details key applications running the gamut from medical imaging visualization and remote sensing to HDTV demonstrating the large computational complexity necessary to perform these tasks INFORMS Annual Meeting
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