

Student: _____ Class: _____ Date: _____

Networks and Graphs: Spanning Trees

VII.B Student Activity Sheet 7: Minimal Spanning Trees

A railroad system connecting five cities is being planned. The goal is to build this system using the least amount of money, while ensuring that each city can be reached by any other city in the system. Based on the distance and terrain, the following chart gives estimates for the cost, in hundreds of thousands of dollars, to build a railroad between any two cities.

	City A	City B	City C	City D	City E
City A		10	5	4	2
City B			7	9	11
City C				5	10
City D					12

1. Create a graph to model the costs contained in the table.
2. Restate the railroad problem using the terminology associated with graphs (for example, *vertices*, *edges*, *paths*, *cycles*).
3. Construct two different graphs that represent possible railroad networks, and calculate the total cost to build each rail system.
4. What rail system leads to the lowest construction cost?
5. How did you arrive at the most efficient rail system? State your answer in a step-by-step algorithm that someone else could follow.

Networks And Graphs Spanning Trees Sheet 7 Answers

Kenneth Rosen



Networks And Graphs Spanning Trees Sheet 7 Answers:

Computing and Combinatorics Oscar H. Ibarra, Louxin Zhang, 2003-08-02 This book constitutes the refereed proceedings of the 8th Annual International Computing and Combinatorics Conference COCOON 2002 held in Singapore in August 2002 The 60 revised full papers presented together with three invited contributions were carefully reviewed and selected from 106 submissions The papers are organized in topical sections on complexity theory discrete algorithms computational biology and learning theory radio networks automata and formal languages Internet networks computational geometry combinatorial optimization and quantum computing **AQA A Level Further Maths: Year 1 / AS Level** Katie Wood, Brian Jefferson, David Bowles, Eddie Mullan, Garry Wiseman, John Rayneau, Mike Heylings, Rob Wagner, Steve Cavill, Paul Williams, Neil Tully, Shaun Procter-Green, L Bostock, Tony Beadsworth, C P Rourke, Mark Gaulter, Brian Gaulter, Robert Smedley, Ian Cook, Graham Upton, Thorning, Sadler, 2020-10-08 This Student Book provides full support for both AQA's new linear AS Level Further Maths specification and for the first year of the full A Level course It covers both the compulsory content further pure and all the optional content mechanics statistics and discrete maths *Discrete Maths and Its Applications Global Edition 7e* Kenneth Rosen, 2012-09-16 We are pleased to present this Global Edition which has been developed specifically to meet the needs of international students of discrete mathematics In addition to great depth in key areas and a broad range of real world applications across multiple disciplines we have added new material to make the content more relevant and improve learning outcomes for the international student This Global Edition includes An entire new chapter on Algebraic Structures and Coding Theory New and expanded sections within chapters covering Foundations Basic Structures and Advanced Counting Techniques Special online only chapters on Boolean Algebra and Modeling Computation New and revised problems for the international student integrating alternative methods and solutions This Global Edition has been adapted to meet the needs of courses outside of the United States and does not align with the instructor and student resources available with the US edition *Graph Theory and Applications* J. Akiyama, Y. Egawa, H. Enomoto, 1988-01-01 Graph Theory and Applications *Graph Drawing and Network Visualization* Patrizio Angelini, Reinhard von Hanxleden, 2023-01-18 This book constitutes the proceedings of the 30th International Symposium on Graph Drawing and Network Visualization GD 2022 held in Tokyo Japan during September 13-16 2022 The 25 full papers 7 short papers presented together with 2 invited talks one report on graph drawing contest and one obituary in these proceedings were carefully reviewed and selected from 70 submissions The abstracts of 5 posters presented at the conference can be found in the back matter of the volume The contributions were organized in topical sections as follows properties of drawings of complete graphs stress based visualizations of graphs planar and orthogonal drawings drawings and properties of directed graphs beyond planarity dynamic graph visualization linear layouts and contact and visibility graph representations **AQA A Level Further Maths: Year 1 + Year 2** Katie Wood, Brian Jefferson, David Bowles, Eddie

Mullan, Garry Wiseman, John Rayneau, Mike Heylings, Rob Wagner, Paul Williams, Neil Tully, Shaun Procter-Green, L Bostock, Tony Beadsworth, C P Rourke, Mark Gaulter, Brian Gaulter, Robert Smedley, Ian Cook, Graham Upton, Thorning, Sadler, 2020-10-08 This Student Book provides full support for AQA's new linear Further Maths specification. Covering both the compulsory content further pure and all the optional content mechanics statistics and discrete maths it offers dedicated problem solving exercises along with abundant worked examples. **Combinatorial Algorithms** Paola Flocchini, Lucia Moura, 2021-06-30 This book constitutes the proceedings of the 32nd International Workshop on Combinatorial Algorithms which was planned to take place in Ottawa ON Canada in July 2021. Due to the COVID 19 pandemic the conference changed to a virtual format. The 38 full papers included in this book together with 2 invited talks were carefully reviewed and selected from 107 submissions. They focus on algorithms design for the myriad of combinatorial problems that underlie computer applications in science engineering and business. Chapter Minimum Eccentricity Shortest Path Problem with Respect to Structural Parameters is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com). **Combinatorial Optimization** Pierre Fouilhoux, Luis Eduardo Neves Gouveia, A. Ridha Mahjoub, Vangelis T. Paschos, 2014-07-21 This book constitutes the thoroughly refereed post conference proceedings of the Third International Symposium on Combinatorial Optimization ISCO 2014 held in Lisbon Portugal in March 2014. The 37 revised full papers presented together with 64 short papers were carefully reviewed and selected from 97 submissions. They present original research on all aspects of combinatorial optimization such as algorithms and complexity mathematical programming operations research stochastic optimization graphs and combinatorics. **Networks** Mark Newman, 2018-07-04 The study of networks including computer networks social networks and biological networks has attracted enormous interest in the last few years. The rise of the Internet and the wide availability of inexpensive computers have made it possible to gather and analyze network data on an unprecedented scale and the development of new theoretical tools has allowed us to extract knowledge from networks of many different kinds. The study of networks is broadly interdisciplinary and central developments have occurred in many fields including mathematics physics computer and information sciences biology and the social sciences. This book brings together the most important breakthroughs in each of these fields and presents them in a coherent fashion highlighting the strong interconnections between work in different areas. Topics covered include the measurement of networks methods for analyzing network data including methods developed in physics statistics and sociology fundamentals of graph theory computer algorithms mathematical models of networks including random graph models and generative models and theories of dynamical processes taking place on networks. **Contemporary Mathematics in Context**, 1998 Blackline masters suitable for making transparencies to facilitate class discussions helping organize student work and assisting with graphics calculator instruction. **Jacaranda Maths Quest 12 General Mathematics VCE Units 3 and 4 7e learnON and Print** Mark Barnes, Pauline Holland, Jennifer Nolan, Geoff

Phillips,2022-11-21 Jacaranda Maths Quest 12 General Mathematics VCE Units 3 and 4 Everything your students need to succeed The best Mathematics series for the new VCE Study Design Developed by expert Victorian teachers for VCE students Get exam ready past VCAA exam questions all since 2013 Students can start preparing from lesson one with past VCAA exam questions embedded in every lesson Practice customisable SACs available for all Units to build student competence and confidence Learn online with Australia s most powerful learning platform learnON Be confident your students can get unstuck and progress in class or at home For every question online they receive immediate feedback and fully worked solutions Teacher led videos to learn and re learn Instant reports make tracking progress simple Combine units flexibly with the Jacaranda Supercourse An Australian first build the course you ve always wanted with the Jacaranda Supercourse You can combine all Methods Units 1 to 4 so students can move backwards and forwards freely Or Methods and General Units 1 2 for when students switch courses The possibilities are endless **Jacaranda Maths Quest 10 + 10A**

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Adamatzky,2012-07-23 Slime mould *Physarum polycephalum* is a monstrous single cell well known for its task solving abilities solves computational geometry and logical problems navigates robots and generates music The slime mould could also build motorways highways and expressways It is used to analyse transport networks of Africa Australia Belgium Brazil Canada China Germany Iberia Italy Malaysia Mexico The Netherlands UK and USA The largest cities are represented by oat flakes and the slime mould is inoculated in a capital When all oat flakes are covered by the slime mould the structure of the protoplasmic networks formed are analyzed In the laboratory experiments and theoretical analyses intriguing country

specific properties of the motorway networks are uncovered and compared with the man made and slime mould networks They are studied as proximity graphs leading to hierarchies of complexity and bio rationality of the motorways The book will inspire novel and original thoughts paradigms and approaches for re evaluation of historical findings on the emergence of ancient roads and will help to design future transcontinental pathways The book is self contained and does not require any special training or knowledge This lavishly illustrated text will be appreciated by readers from all walks of life

Proceedings of the 5th International Conference on Big Data Analytics for Cyber-Physical System in Smart City—Volume 2 Mohammed Atiquzzaman, Neil Yen, Zheng Xu, 2025-02-26 This book gathers a selection of peer reviewed papers presented at the 5th Big Data Analytics for Cyber Physical System in Smart City BDCPS 2023 conference held in Fuyang China on December 28 29 The contributions prepared by an international team of scientists and engineers cover the latest advances and challenges made in the field of big data analytics methods and approaches for the data driven co design of communication computing and control for smart cities Given its scope it offers a valuable resource for all researchers and professionals interested in big data smart cities and cyber physical systems Handbook of Algorithms for Wireless Networking and Mobile Computing Azzedine Boukerche, 2005-11-28 The Handbook of Algorithms for Wireless Networking and Mobile Computing focuses on several aspects of mobile computing particularly algorithmic methods and distributed computing with mobile communications capability It provides the topics that are crucial for building the foundation for the design and construction of future generations of mobile and wireless networks including cellular wireless ad hoc sensor and ubiquitous networks Following an analysis of fundamental algorithms and protocols the book offers a basic overview of wireless technologies and networks Other topics include issues related to mobility aspects of QoS provisioning in wireless networks future applications and much more **Advanced Data Mining and Applications** Jinyan Li, Xue Li, Shuliang Wang, Jianxin Li, Quan Z. Sheng, 2016-11-17 This book constitutes the proceedings of the 12th International Conference on Advanced Data Mining and Applications ADMA 2016 held in Gold Coast Australia in December 2016 The 70 papers presented in this volume were carefully reviewed and selected from 105 submissions The selected papers covered a wide variety of important topics in the area of data mining including parallel and distributed data mining algorithms mining on data streams graph mining spatial data mining multimedia data mining Web mining the Internet of Things health informatics and biomedical data mining Image Analysis and Recognition Aurélio Campilho, Mohamed Kamel, 2006-09-21 The two volume set LNCS 4141 and LNCS 4142 constitutes the refereed proceedings of the Third International Conference on Image Analysis and Recognition ICIAR 2006 The volumes present 71 revised full papers and 92 revised poster papers together with 2 invited lectures Volume II includes papers on pattern recognition for image analysis computer vision biometrics shape and matching brain imaging remote sensing image processing and more , **Proceedings of the Ninth Workshop on Algorithm Engineering and Experiments and the Fourth Workshop on Analytic Algorithms and Combinatorics** David

Applegate, 2007 Proceedings of the Seventh SIAM International Conference on Data Mining **Integer Programming and Network Models** H.A. Eiselt, Carl-Louis Sandblom, 2000-08-15 The purpose of this book is to provide readers with an introduction to the very active field of integer programming and network models The idea is to cover the main parts of the field without being too detailed or too technical As a matter of fact we found it somewhat surprising that most especially newer books are strongly algorithmically oriented In contrast the main emphasis of this book is on models rather than methods This focus expresses our view that methods are tools to solve actual problems and not ends in themselves As such graduate and with some omissions undergraduate students may find this book helpful in their studies as will practitioners who would like to get acquainted with a field or use this text as a refresher This premise has resulted in a coverage that omits material that is standard fare in other books whereas it covers topics that are only infrequently found elsewhere There are some yet relatively few prerequisites for the reader Most material that is required for the understanding of more than one chapter is presented in one of the four chapters of the introductory part which reviews the main results in linear programming the analysis of algorithms graphs and networks and dynamic programming respectively Readers who are familiar with the issues involved can safely skip that part The three main parts of the book rely on intuitive reasoning and examples whenever practical instead of theorems and proofs

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