

Connectedness of a Directed Graph

When dealing with directed graphs, we define two kinds of connectedness, *strong* and *weak*. Strong connectedness of a directed graph is defined as follows:

Definition (Strong Connectedness of a Directed Graph) A directed graph $G = (\mathcal{V}, \mathcal{E})$ is *strongly connected* if there is a path in G between every pair of vertices in \mathcal{V} .

For example, Figure shows the directed graph $G_a = (\mathcal{V}, \mathcal{E})$ given by

$$\begin{aligned}\mathcal{V} &= \{a, b, c, d, e, f\} \\ \mathcal{E} &= \{(a, b), (b, c), (b, c), (c, a), (d, e), (e, f), (f, d), \}\end{aligned}$$

Notice that the graph G_a is not connected! E.g., there is no path from any of the vertices in $\{d, e, f\}$ to any of the vertices in $\{a, b, c\}$. Nevertheless, the graph “looks” connected in the sense that it is not made of up of separate parts in the way that the graph G_b in Figure is.

This idea of “looking” connected is what *weak connectedness* represents. To define weak connectedness, we need to introduce first the notion of the undirected graph that underlies a directed graph: Consider a directed graph $G = (\mathcal{V}, \mathcal{E})$. The underlying undirected graph is the graph $\tilde{G} = (\mathcal{V}, \tilde{\mathcal{E}})$ where $\tilde{\mathcal{E}}$ represents the set of undirected edges that is obtained by removing the arrowheads from the directed edges in G :

$$\tilde{\mathcal{E}} = \{ \{u, v\} : (u, v) \in \mathcal{E} \vee (v, u) \in \mathcal{E} \}.$$

Directed Paths

Herbert Spencer



Directed Paths:

Multiwavelength Optical Networks Xiaohua Jia, Xiao-Dong Hu, Ding-Zhu Du, 2013-04-17 Multiwavelength Optical Networks systematically studies the major research issues in WDM Wavelength Division Multiplexing optical networks such as routing and wavelength assignment QoS multicast routing design of logical topologies and placement of wavelength converters The book consists of two parts The first part studies the fundamental concepts and principles of WDM networks The second part discusses advanced and research issues of WDM networks The authors of the book have many years of working experience in the areas of computer networks and network optimization The book discusses many difficult issues of WDM networks in a very comprehensive way For each problem there is a background discussion and then the mathematical formulation followed by the solutions

Advances in Mathematical Sciences Bahar Acu, Donatella Danielli, Marta Lewicka, Arati Pati, Saraswathy RV, Miranda Teboh-Ewungkem, 2020-07-16 This volume highlights the mathematical research presented at the 2019 Association for Women in Mathematics AWM Research Symposium held at Rice University April 6 7 2019 The symposium showcased research from women across the mathematical sciences working in academia government and industry as well as featured women across the career spectrum undergraduates graduate students postdocs and professionals The book is divided into eight parts opening with a plenary talk and followed by a combination of research paper contributions and survey papers in the different areas of mathematics represented at the symposium algebraic combinatorics and graph theory algebraic biology commutative algebra analysis probability and PDEs topology applied mathematics mathematics education

Advances in Intelligent Data Analysis XX Tassadit Bouadi, Elisa Fromont, Eyke Hüllermeier, 2022-04-06 This book constitutes the proceedings of the 20th International Symposium on Intelligent Data Analysis IDA 2022 which was held in Rennes France during April 20 22 2022 The 31 papers included in this book were carefully reviewed and selected from 73 submissions They deal with high quality novel research in intelligent data analysis

The Complexity of Logarithmic Space Bounded Counting Classes (Second Edition) T. C. Vijayaraghavan, 2026-03-10 A logarithmic space bounded counting class is defined based on the number of accepting and or the number of rejecting computation paths of a NL Turing machine This monograph gives a nice in depth exposition of logarithmic space bounded counting classes and many important results on them including their properties A major portion of results shown by the author have not appeared in any textbook on computational complexity This textbook is intended to be an introductory material on logarithmic space bounded counting classes for advanced undergraduate students or graduate students and researchers who have prior knowledge of basics concepts in the Design and Analysis of Algorithms Theory of Computation Computational Complexity and Discrete Mathematics

Coloured Petri Nets Kurt Jensen, 1992 This three volume work presents a coherent description of the theoretical and practical aspects of coloured Petri nets CP nets The second volume contains a detailed presentation of the analysis methods for CP nets They allow the modeller to

investigate dynamic properties of CP nets The main ideas behind the analysis methods are described as well as the mathematics on which they are based and also how the methods are supported by computer tools Some parts of the volume are theoretical while others are application oriented The purpose of the volume is to teach the reader how to use the formal analysis methods which does not require a deep understanding of the underlying mathematical theory **1984 IEEE International Symposium on Circuits and Systems Proceedings** ,1984 *Practical Christianity Illustrated. Sermons, Etc. Vol. 1* William BIRCH (Founder of the Cornbrook Orphan Houses, Manchester.),1873 *Trees, Paths and Avalanches on Random Networks* Radu Dobrin,2002 **Official Gazette of the United States Patent Office** USA Patent Office,1926 *Works* Herbert Spencer,1910 **The development hypothesis** Herbert Spencer,1892 **Essays** Herbert Spencer,1910 Essays: Scientific, Political, and Speculative Spencer,1892 *Essays, Scientific, Political, and Speculative* Herbert Spencer,1892 **Essays: scientific, political, & speculative. Libr. ed** Herbert Spencer,1891 **Instructor's Solutions Manual** Bradley W. Jackson,1990 *The Lancet-clinic* ,1910 *Proceedings of the London Mathematical Society* London Mathematical Society,1921 Papers presented to J E Littlewood on his 80th birthday issued as 3d ser v 14 A 1965 **Contract** ,1917 Memoirs British Astronomical Association,1904

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Directed Paths**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web sep 6 2001 anglo platinum is pleased to announce that it will be proceeding with the development of a new platinum group metals mine on the farms twickenham paschaskraal and hackney on the eastern limb of the bushveld igneous complex in the northern province some 40 km from the town burgersfort

twickenham mine wikipedia - Oct 10 2023

web company anglo american platinum the twickenham mine is a large open pit mine located in the north western part of south africa in mokopane limpopo twickenham represents one of the largest platinum reserves in south africa having estimated reserves of 39 6 million oz of platinum 1