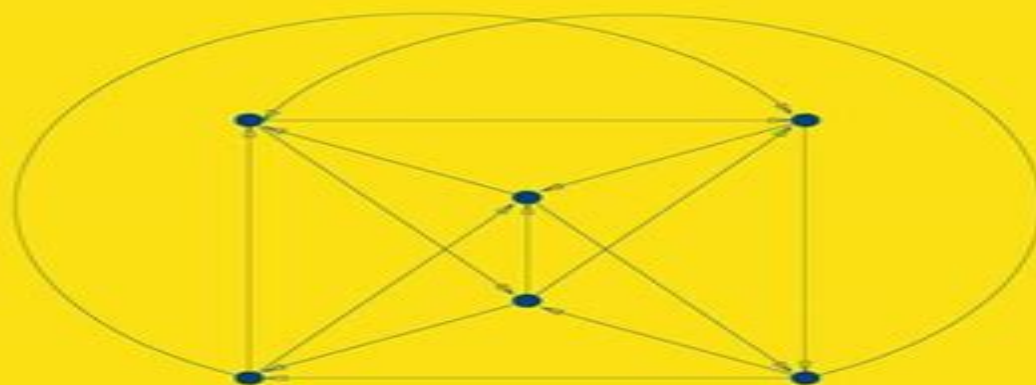


JØRGEN BANG-JENSEN • GREGORY GUTIN

Digraphs: Theory, Algorithms and Applications

Second Edition



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Jorgen Bang-Jensen, Gregory Gutin



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Jørgen Bang-Jensen, Gregory Z. Gutin, 2008-12-17 Substantially revised, reorganised and updated, the second edition now comprises eighteen chapters carefully arranged in a straightforward and logical manner with many new results and open problems. As well as covering the theoretical aspects of the subject with detailed proofs of many important results, the authors present a number of algorithms and whole chapters are devoted to topics such as branchings, feedback arc and vertex sets, connectivity augmentations, sparse subdigraphs with prescribed connectivity and also packing, covering and decompositions of digraphs. Throughout the book, there is a strong focus on applications which include quantum mechanics, bioinformatics, embedded computing and the travelling salesman problem. Detailed indices and topic-oriented chapters ease navigation and more than 650 exercises, 170 figures and 150 open problems are included to help immerse the reader in all aspects of the subject. **Graph Theory for Operations Research and Management: Applications in Industrial Engineering**

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Bretto, 2013-04-17 This book provides an introduction to hypergraphs, its aim being to overcome the lack of recent

manuscripts on this theory In the literature hypergraphs have many other names such as set systems and families of sets This work presents the theory of hypergraphs in its most original aspects while also introducing and assessing the latest concepts on hypergraphs The variety of topics their originality and novelty are intended to help readers better understand the hypergraphs in all their diversity in order to perceive their value and power as mathematical tools This book will be a great asset to upper level undergraduate and graduate students in computer science and mathematics It has been the subject of an annual Master s course for many years making it also ideally suited to Master s students in computer science mathematics bioinformatics engineering chemistry and many other fields It will also benefit scientists engineers and anyone else who wants to understand hypergraphs theory Ergodic Theory of Expanding Thurston Maps Zhiqiang Li, 2017-04-06 Thurston maps are topological generalizations of postcritically finite rational maps This book provides a comprehensive study of ergodic theory of expanding Thurston maps focusing on the measure of maximal entropy as well as a more general class of invariant measures called equilibrium states and certain weak expansion properties of such maps In particular we present equidistribution results for iterated preimages and periodic points with respect to the unique measure of maximal entropy by investigating the number and locations of fixed points We then use the thermodynamical formalism to establish the existence uniqueness and various other properties of the equilibrium state for a Holder continuous potential on the sphere equipped with a visual metric After studying some weak expansion properties of such maps we obtain certain large deviation principles for iterated preimages and periodic points under an additional assumption on the critical orbits of the maps This enables us to obtain general equidistribution results for such points with respect to the equilibrium states under the same assumption

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