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Fractional Graph Theory A Rational

Fractional Graph Theory a rational approach to the theory ...
Fractional Graph Theory a rational approach to the theory of graphs Robert R Rubalcaba Department of Mathematical Sciences University of Alabama in Huntsville A minimum fractional dominating function on a graph G, is a fractional dominating function g which attains the minimum
Fractional Graph Theory - Xidian
71 Fractional topological graph theory 111 72 Fractional cycle double covers 113 73 Fractional Ramsey theory 114 74 Fractional domination 116 75 Fractional intersection number 121 76 Fractional dimension of a poset 125 77 Sperner's theorem: a fractional perspective 127 78 Exercises 128 79 Notes 129

Fractional Analogues in Graph Theory

Fractional Graph Theory Fractional graph theory is a field of graph theory that defines rational-valued equivalents of normally integer-valued graph theory concepts For example, the chromatic number of a graph, typically denoted χ(G), which represents the fewest number of colors necessary to color the vertices of a graph such that no two adja-

Rational Functions - Math

Rational Functions In this chapter, you'll learn what a rational function is, and you'll learn how to sketch the graph of a rational function Rational functions A rational function is a fraction of polynomials That is, if p(x)andq(x) are polynomials, then p(x) q(x) is a rational function The numerator is p(x)andthedenominator is q(x

FRACTIONAL GRAPH HOMOMORPHISMS

graph (ie a graph where each two vertices are adjacent) in G (such a subset is called a clique) Deflnition 4 (Independence Number) The independence number fi (G) of a graph

Nordhaus--Gaddum inequalities for the fractional and …

known [21] that each of these fractional parameters takes on only rational values, hence the name Much recent research has been conducted on the properties of these fractional graph parameters (for more information on the uses and applications of fractional graph theory, we refer the reader to [21])

Subcubic triangle-free graphs have fractional chromatic …

fractional chromatic number is at most 3 3=64 ˇ2:953 (The fractional chromatic number of a graph is the smallest number ksuch that the graph is fractionally k-colorable) The result of Hatami and Zhu is the rst to establish that the fractional chromatic number of every subcubic triangle-free graph …

FRACTIONAL COLORINGS AND THE MYCIELSKI GRAPHS

from G to the graph Kn, so a proper a=b-coloring of G can be seen as a graph homomorphism from G to Ka:b The fractional chromatic number of a graph, ´F(G), is the inflmum of all rational numbers a=b such that there exists a proper a=b-coloring of G From this deflnition, it is not immediately clear that ´F(G) must be a rational number for

Structural Properties of Index Coding Capacity using …

from fractional graph theory [9] such as the identities on fractional chromatic numbers for graph products (see Section II) to establish several structural properties of the capacity region Our approach based on confusion graph and fractional chromatic number seems to be broadly applicable beyond these structural results Although it

7.3 GraphingRationalFunctions

Section 73 Graphing Rational Functions 641 Version: Fall2007 f(x) = (x−2)/((x−2)(x+2)) equaltozeroHence,x= −2 andx= 2 arerestrictions oftherationalfunctionf

A fractional approach to minimum rank and zero forcing

of the theory developed to derive fractional minimum positive semide nite rank was to de ne r-fold and fractional zero forcing processes As a nal note, we emphasize that the term \fractional graph parameter" is a nod to the method with which our new parameters are developed, and not a claim that any particular parameter is rational-valued

A FRACTIONAL VIEW OF GRAPH THEORY

FRACTIONAL GRAPH THEORY 267 Fractional packing numbers are defined analogously: a real valued function g : V - [0, 1] is a packing function if for every v E V, g(N[v]) < 1 A packing function is maximal if for every v E V with g(v) < 1, there exists a vertex u E N[v] where ý(W[ti]) = 1

The last fraction of a fractional conjecture

a fractional coloring of a graph, and we refer to the book by Scheinerman and Ullman [9] for further exposition about fractional colorings (and, more generally, fractional graph theory) We now introduce some additional notation Two functions f,g : X → Y agree on Z ⊆ X if the restrictions of f and g to Z are equal Let G be a graph and v

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Fractional Graph Theory Dover Books On Mathematics [EPUB]

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Extensions of Fractional Precolorings show Discontinuous …

to a fractional coloring of the whole graph Problem 1 Let " > 0 be a real, k 2 a rational and d 3 an integer Given a fractionally k -colorable graph G and a fractional (k + ")-precoloring of a subset of its vertex set at pairwise distance at least d , is it possible to extend the precoloring to a fractional (k + ")-coloring of the whole

OntheCircuitDiameterofsomeCombinatorial Polytopes

Salesman polytope and the Fractional Stable Set polytope 1 Introduction For a polytope P ⊆ Rd, the 1-skeleton of P is the graph given by the set of ver-tices (0-dimensional faces) of P, and the set of edges (1-dimensional faces) of P The combinatorial diameter of P is the maximum shortest path distance between two ver-tices in this graph

Variational Methods For Nonlocal Fractional Problems

Nonlocal Fractional Problems This book provides researchers and graduate students with a thorough introduction to the variational analysis of nonlinear problems described by nonlocal operators The authors give a systematic treatment of the basic mathematical theory and