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This book provides a
timely overview of
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laying the foundation
for future applications
in a broad range of
areas. It introduces
readers to fundamental
theories, such as

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Craine's work on fuzzy interval graphs, fuzzy analogs of Marczewski's theorem, and the Gilmore and Hoffman characterization.

Fuzzy Graph Theory **| Sunil Mathew |** **Springer**

A fuzzy graph G is a pair (σ, μ) where σ is a fuzzy subset of S and μ is a fuzzy relation on S such that

$\mu(u, v) \leq \sigma(u) \wedge \sigma(v)$. In

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this paper, the center problems on fuzzy graphs are studied.

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different subject fields
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fuzzy graph is the crisp
graph $G_\alpha = (V, E_\alpha)$ with
 $E_\alpha = \{ \{i, j\} / i, j \in V, \mu_{ij} \geq \alpha \}$. In crisp case the
edge chromatic
number of a graph is
either $\Delta + 1$ where Δ is
the maximum vertex
degree. Here we define

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fuzzy edge chromatic
number as a fuzzy
number as follows:

Definition 4.1: For a
fuzzy graph $\hat{G} = (V, \mu)$,
its edge

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The notion of T-fuzzy graph introduced by J. Mordeson et al. in [11]. Now, in this paper, some types of T-fuzzy graphs are considered, fuzzy adjacency matrix of that T-fuzzy graphs is obtained.

(PDF) A Study on Fuzzy Labeling Graphs - ResearchGate

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Journal of Algebra and Related Topics

Abstract. A graph is a pair (V, R) , where V is a set and R is a relation on V . The elements of V are thought of as vertices of the graph and the elements of R are thought of as the edges. Similarly, any fuzzy relation ρ on a fuzzy subset μ of a set V can be regarded as defining a weighted graph, or fuzzy graph,

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where the edge $(x, y) \in V \times V$ has weight or strength $\rho(x, y) \in [0, 1]$.

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Fuzzy rough set theory is a hybrid method that deals with vagueness and uncertainty emphasized in decision-making. In this research study, we apply the concept of fuzzy rough sets to graphs. We introduce

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Fuzzy Rough Graph Theory with Applications | Atlantis Press

Definition 3. (see []). A fuzzy graph is a pair of functions and . An adjacency matrix of a

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fuzzy graph is defined
as follows: Definition 4.

(see []). An adjacency
matrix, of a fuzzy
graph , is an matrix
defined as such that .
The adjacency matrix
for the fuzzy graph in
Figure 4 is Blue et al. []
further introduced five
types of fuzzy graphs,
i.e., taxonomy of fuzzy
graphs.

Preference Graph of Potential Method as a Fuzzy Graph

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In the open literature, there are many papers written on the subject of fuzzy graph theory.

However, there are relatively books available on the very same topic. Professors' Mordeson and Nair have...

Fuzzy Graphs and Fuzzy Hypergraphs - John N. Mordeson ...

Harinath and Lavanya discussed fuzzy graph structures for wheel,

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helm, and star graphs [26]. In this article, we present a new framework to handle fuzzy information by combining fuzzy sets with graph structures. We introduce many basic notions concerning fuzzy-graph structures and investigate a few related properties.

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A fuzzy graph (Eq.) is known as a fuzzy magic graph if there exist two bijective functions (Eq.) and (Eq.) such that (Eq.) and (Eq.) for all (Eq.) where (Eq.) is a fuzzy magic constant. Additionally, we investigated that fuzzy paths, fuzzy stars and fuzzy cycles are fuzzy magic graphs.

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THEORY OF FUZZY GRAPHS. - Free Online ...

This book provides a timely overview of fuzzy graph theory, laying the foundation for future applications in a broad range of areas. It introduces readers to fundamental theories, such as Craine's work on fuzzy interval graphs, fuzzy analogs of Marczewski's theorem, and the Gilmore and

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Hoffman
characterization.

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Fuzzy Graph Theory (Studies in Fuzziness and Soft

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applications and case studies in the areas of fuzzy logic, intelligent systems, and web-based applications among working professionals and professionals in education and research, covering a broad cross-section of technical disciplines.

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