

Plithogenics and New Types of Soft Sets

Part of the Advances in Information Quality and Management Book Series

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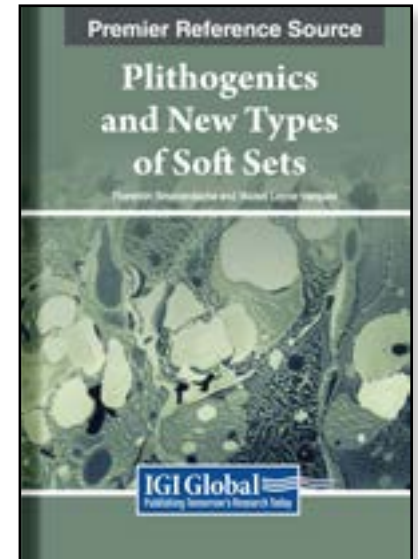
Description:

In the evolving environment of academic research, scholars face a persistent challenge – navigating the complexities of indeterminacy in data. Traditional approaches often fall short when confronted with the imprecision, uncertainty, and conflicting information inherent in real-world scenarios. As the demand for precise modeling and analysis grows across disciplines such as engineering, social science, philosophy, and economics, there arises a critical need for innovative tools that can seamlessly address the nuances of indeterminate data.

Plithogenics and New Types of Soft Sets is a transformative book that offers a compelling solution to the indeterminacy puzzle by introducing a comprehensive framework that transcends the limitations of conventional methods. Anchored by the Plithogenic Set—a revolutionary concept characterizing sets with diverse attributes and values—the book unveils a paradigm shift in understanding, providing scholars with a powerful toolset to navigate the intricacies of indeterminate information.

The IndetermSoft Set, a key focus of the book, emerges as a groundbreaking extension of the classical Soft Set; this set deals specifically with the uncertainties encountered in our imperfect world. **Plithogenics and New Types of Soft Sets** deftly guide readers through the intricacies of indeterminate data, presenting a detailed exploration of the IndetermSoft Algebra—a novel algebraic framework that incorporates both determinate and indeterminate operators. This innovative approach equips scholars with the precision needed to tackle real-life problems where conventional models fall short.

Plithogenics and New Types of Soft Sets are poised to revolutionize the way scholars engage with indeterminate data. Whether delving into paradoxism, neutrosophy, or plithogeny, the book offers a rich tapestry of knowledge that seamlessly integrates with practical applications in engineering, social science, philosophy, and economics. The book invites readers to embark on an intellectual journey, where the fusion of theory and application opens new horizons in addressing the challenges of indeterminacy.



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Topics Covered:

- HyperSoft Set
- IndetermHyperSoft Set
- IndetermSoft Set
- Neutrosophic Logic
- Neutrosophic Probability
- Neutrosophic Set
- Paradoxism
- Plithogenic Logic
- Plithogenic Probability
- Plithogenic Set
- Plithogenic Statistics
- Plithogeny
- Soft Set
- TreeSoft Set

Subject: Science and Engineering

Classification: Edited Reference

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