1.	Record Nr.	UNINA9910921014003321
	Autore	Singh Manoranjan Kumar
	Titolo	Applied Fuzzy Mathematics / / by Manoranjan Kumar Singh
	Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
	ISBN	9789819732579
		9819732573
	Edizione	[1st ed. 2024.]
	Descrizione fisica	1 online resource (396 pages)
	Collana	Forum for Interdisciplinary Mathematics, , 2364-6756
	Disciplina	511.313
	Soggetti	Graph theory
		Algebra
		Topological groups
		Lie groups
		Group theory
		Engineering mathematics
		Engineering - Data processing
		Graph Theory
		Order, Lattices, Ordered Algebraic Structures
		Topological Groups and Lie Groups
		Group Theory and Generalizations
		Mathematical and Computational Engineering Applications
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Solving Fuzzy Linear Equations -- Graphs, Fuzzy Graphs and Intuitionistic Fuzzy Graphs -- Fuzzy Measures, Possibility and Necessity -- Compositional Rule of Inference -- Fuzzy Topological Spaces -- Fuzzy Subgroups and Fuzzy Normal Subgroups -- Application of Fuzzy Mathematics in Other Disciplines.
	Sommario/riassunto	This comprehensive introductory textbook is designed for undergraduate mathematics students who are interested in gaining an in-depth understanding of fuzzy mathematics and its applications. The book covers a wide range of topics, including fuzzy linear equations, fuzzy graphs, fuzzy measures, fuzzy logic, fuzzy topological spaces, fuzzy subgroups, as well as applications of fuzzy mathematics in

various other fields. While readers are assumed to be familiar with the concept of fuzzy sets, the book maintains a clear and straightforward approach that makes it easy to follow for students at any level of proficiency. The advanced content is presented in an insightful and accessible manner, empowering students to apply the concepts they learn to real-world problems and applications. Enriched with over 105 solved examples, 133 challenging problems, 185 multiple-choice questions, and 150 true/false statements, this book is an ideal tool for beginners seeking to gain a solid foundation in fuzzy mathematics and its applications. Whether you are studying independently or as part of a classroom setting, this book provides a valuable resource that will help you achieve your goals.