

1. Record Nr.	UNINA9910350249003321
Autore	Islam Sahidul
Titolo	Fuzzy Geometric Programming Techniques and Applications // by Sahidul Islam, Wasim Akram Mandal
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-5823-0
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XXI, 359 p. 69 illus., 10 illus. in color.)
Collana	Forum for Interdisciplinary Mathematics, , 2364-6748
Disciplina	516
Soggetti	Operations research Management science Mathematical optimization Numerical analysis Operations Research, Management Science Discrete Optimization Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Introduction to Fuzzy Set Theory -- Chapter 2. Fuzzy Numbers & Fuzzy Optimization -- Chapter 3. Preliminary concepts of Geometric Programming Model -- Chapter 4. Fuzzy Unconstrained Geometric Programming Problem -- Chapter 5. Fuzzy Unconstrained Modified Geometric Programming Problem -- Chapter 6. Fuzzy Constrained Geometric Programming Problem -- Chapter 7. Fuzzy Constrained Fuzzy Modified Geometric Programming Problem -- Chapter 8. Signomial Geometric Programming Problem -- Chapter 9. Fuzzy Signomial Geometric Programming (GP) Problem -- Chapter 10. Goal Geometric Programming -- Chapter 11. Fuzzy Non-linear Programming -- Chapter 12. Geometric Programming Methods under Uncertainty -- Chapter 13. Intuitionistic & Neutrosophic Geometric Programming Problem.
Sommario/riassunto	This book develops the concepts of various unique optimization techniques in the crisp and fuzzy environment. It provides an extensive overview of geometric programming methods within a unifying framework, and presents an in-depth discussion of the modified

geometric programming problem, fuzzy geometric programming, as well as new insights into goal geometric programming. With numerous examples and exercises together with detailed solutions for several problems, the book also addresses fuzzy multi-objective geometric programming techniques. Geometric programming, which falls into the general class of signomial problems, has applications across disciplines, from engineering to economics, and is extremely useful in applications of a variety of optimization problems. Organized into thirteen chapters, this book is a valuable resource for graduate and advanced undergraduate students and researchers in applied mathematics and engineering.
