



# Nonlinear Operator Theory in Probablistic Metric Spaces

Shih-Sen Chang

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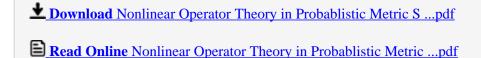
### **Nonlinear Operator Theory in Probablistic Metric Spaces**

Shih-Sen Chang

#### Nonlinear Operator Theory in Probablistic Metric Spaces Shih-Sen Chang

The purpose of this book is to give a comprehensive introduction to the study of nonlinear operator theory in probabilistic metric spaces. This book is introduced as a survey of the latest and new results on the following topics:

- 1. Basic theory of probabilistic metric spaces,
- 2. Fixed point theorems for single-valued and multi-valued mappings in probabilistic metric spaces,
- 3. Ekeland's variational principle and Caristi's fixed point theorem in probabilistic metric spaces,
- 4. Coincidence point theorems, minimization and fixed degree theorems in probabilistic metric spaces,
- 5. Probabilistic contractors, accretive mappings and topological degree in probabilistic normed spaces,
- 6. Nonlinear semigroups and differential equations in probabilistic metric spaces,
- 7. KKM theorems, minimax theorems and variational inequalities.



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