

# CONTENTS

1. Introduction
2. Geometries and Geometric Lattices
3. Six Classical Examples
4. Span, Bases, Bonds, Dependence and Circuits
5. Cryptomorphic Versions of Geometry
6. Simplicial Geometries
7. Semimodular Functions
8. A Glimpse of Matching Theory
9. Maps
10. The Extension Theorem
11. Orthogonality
12. Factorization of Relatively Complemented Lattices
13. Factorization of Geometries
14. Connected Sets
15. Representation
16. The Critical Problem
17. Bibliography