

## CONTENTS

1. Introduction	1
2. Historical perspective	17
3. Phase diagrams for supercritical fluid – solute mixtures	27
4. Experimental techniques in high – pressure studies	85
5. Thermodynamic modeling of supercritical fluid- solute phase behavior	99
6. Process operations	135
7. Early industrial applications	145
8. Supercritical fluid process development studies	157
9. Polymers and monomers processing	189
10. Processing pharmaceuticals, natural products, specialty chemicals , and waste streams	293
11. Chemical reactions in supercritical fluids	311
12. Special applications	333
13. Epilogue	367
14. Index	503