

CONTENTS

1 HOMOGENEOUS SYSTEMS AND THEIR PROPERTIES

1. Historical Background	3
2. The Homogeneous Aerosol Systems	11
3. Fluorocarbon Propellants—Current and Alternative	19
4. Hydrocarbon Propellants, Compressed Gases, and Propellant Blends	36
5. Containers	56
6. Valves and Actuators	85
7. Filling Methods	116
8. Vapor Pressure	126
9. Spray Characteristics	145
10. Solvency	165
11. Viscosity	188
12. Density	196
13. Stability	204
14. Flammability	221

2 EMULSIONS, FOAMS , AND SUSPENSIONS

15. Surfaces and Interfaces	253
16. General Properties of Emulsions	277
17. General Properties of Foams	299
18. Aqueous Aerosol Emulsions and Foams	310
19. Aqueous Alcohol Foams	371
20. Nonaqueous Foams	389
21. Aerosol Suspensions	400

MISCELLANEOUS

22. Fluorocarbon in the Atmosphere	415
23. Technical programs in Atmospheric Sciences	438
24. Sampling and Analysis of Aerosol Products	452
25. Toxicity of Fluorocarbon Propellants	466

Index	513
-------	-----