

CONTENTS

A. HISTORY	1
1. HISTORY OF WEATHER MODIFICATION	3
2. EXPERIENCE OF THE PRIVATE SECTOR	45
B. BACKGROUND	91
3. THE METEOROLOGICAL BACKGROUND FOR WEATHER MODIFICATION	93
4. WEATHER MODIFICATION INSTRUMENTS AND THEIR USE	136
5. DESIGN AND EVALUATION OF WEATHER MODIFICATION EXPERIMENTS	206
C. PRECIPITATION MANAGEMENT	227
6. CUMULUS CLOUDS AND THEIR MODIFICATION	229
7. WEATHER MODIFICATION FOR AUGMENTING OROGRAPHIC PRECIPITATION	282
8. THE MITIGATION OF GREAT LAKES STORMS	318
9. FOG-BERNARD A. SILVERMAN AND ALAN I. WEINSTEIN	355
D. PROGRAMS IN OTHER COUNTRIES	385
10. MODIFICATION OF METEOROLOGICAL PROCESSES	387
11. PROGRESS OF HAIL SUPPRESSION WORK IN THE USSR	410
12. CLOUD SEEDING IN AUSTRALIA	432
13. RAIN STIMULATION AND CLOUD PHYSICS IN ISRAEL	454
E. SEVERE STORMS	495
14. HURRICANE MODIFICATION	497
15. COMPUTER SIMULATION OF HURRICANE DEVELOPMENT AND STRUCTURE	522
16. TORNADOES	552
17. LIGHTNING MODIFICATION	596
F. CLIMATIC CHANGE	631
18. GLOBAL ATMOSPHERIC MODELING AND THE NUMERICAL SIMULATION OF CLIMATE	632
19. INADVERTENT LARGE-SCALE WEATHER MODIFICATION	687
20. INADVERTENT ATMOSPHERIC MODIFICATION THROUGH URBANIZATION	726
G. OTHER PROBLEMS	765
21. WEATHER MODIFICATION LITIGATION AND STATUTES	767
22. SOCIOLOGICAL ASPECTS OF WEATHER MODIFICATION	787
INDEX	813