

Table of Contents

Foreword.	2
Preface.	2
Introduction.	
1. Statement of the problem	6
2. The general pattern of smoke movement	11
3. The importance of the wind	18
4. Superposition of turbulent motions	23
5. The gustiness and the eddy viscosity of air.	25
6. The structure of free gas flow	34
7. The boundary of the trajectories of the gaseous components of smoke	38
8. The trajectory of the smoke suspensoids	45
9. The distance of the zone of pollution from the source	50
10. The concentration of air pollution due to a single source of pollution	56
11. Smokes spreading at ground level.	79
12. Unorganized discharge of smoke	83
13. The frequency of smoke pollution	85
14. Superposition of zones of pollution	87
15. Pollution by domestic smoke.	95
16. The toxicological appraisal of air pollution	99
17. The distribution of smoke pollution with height.	104
18. Studies of smoke propagation by means of models.	107
19. The effect of smoke on the turbidity of the atmosphere	143
20. Smoke pollution and the weakening of the total direct solar radiation	152
20a. Smoke pollution and the weakening of diffuse radiation	153
21. Smoke pollution and the weakening of illuminance	158
22. Smoke pollution and ultraviolet solar radiation.	159
23. The selective absorption of ultraviolet radiation by the gaseous components of smoke	165
24. Smoke pollution and visibility	166
25. Smoke pollution and fogs	169
26. Smoke pollution and the ionization of air	175
27. Smoke pollution and nocturnal radiation.	181
28. The deposition of the smoke components	183
29. Smoke pollution and the corrosion of building materials	184
30. The significance of the theory of smoke pollution for the sanitary control of urban atmospheres.	186
Appendix I	194
Appendix II	199
Bibliography	200