

CONTENTS

1. Introduction	1
2. Psychrometrics and comfort	6
3. Estimating requirements	21
4. Economics	60
5. Heat producing equipment	91
6. Heat distributing equipment	104
7. Steam heating systems	120
8. Hot water heating systems	143
9. Automatic controls and zoning for heating	158
10. Fans heaters and ventilators	169
11. Air cleaning devices and humidifiers	200
12. Design of air duct systems	227
13. Cooling and dehumidification	264
14. Central and unit systems	297
15. Refrigeration for air conditioning	307
16. Refrigeration for air conditioning (continued)	336
17. Air distribution and zoning	364
18. Automatic controls for air conditioning	396
19. Noise and vibration	416
20. Application practice	442
21. Residential heating and air conditioning systems	459
22. Appendix	487
Index	539