



INSULATION HANDBOOK

RICHARD T. BYNUM, JR.

- PROVIDES DETAILED ANALYSIS OF TRADITIONAL AND NEW MATERIALS
- COVERS ABATEMENT OF ASBESTOS AND UFFI
- INCLUDES APPENDIX OF MANUFACTURERS AND SUPPLIERS

Contents

Preface	ix
Acknowledgments	xiii

Chapter 1. A Brief History of Thermal Insulation	1
Chapter 2. Thermal Comfort	11
Chapter 3. Insulation Fundamentals and Principles	19
Chapter 4. Vapor and Air Retarders	31
Chapter 5. Insulation Applications and Comparisons	51
Chapter 6. Building Codes, Associated Standards, and Regulations	61
Chapter 7. Loose-Fill Insulation	73
Chapter 8. Blanket Insulation: Batts and Rolls	117
Chapter 9. Sprayed-In-Place Insulation	153
Chapter 10. Foamed-In-Place Insulation	183
Chapter 11. Rigid Board Insulation	205
Chapter 12. Radiant Barriers and Reflective Insulation	243
Chapter 13. Earth	267
Chapter 14. Coatings	285
Chapter 15. Integrated Insulation Systems	291
Chapter 16. Historical Insulation Products	349

viii Contents

Chapter 17. Future Insulation Products and Technologies	375
Appendix A. Miscellaneous Figures and Tables	395
Appendix B. Directory of Manufacturers, Suppliers, and Associations	421
Appendix C. Directory of Historical Insulation Products	461
Index	473