Table of Tables

1. Site Planning
   Table 1-1 Shading Design Strategies .................................................. 10

2. The House as a System
   Table 2-1 Building Materials and Their Perm Ratings .......................... 28

3. Energy Efficient Features
   Table 3-1 Estimated Extra Costs of an Energy Star Home in Baton Rouge 36
   Table 3-2 Energy Savings for an Energy Star Home .................................. 37
   Table 3-3 Design Requirements to Meet the 2006 International Residential Code 37
   Table 3-4 Rate of Return for Energy Investments (%) ................................. 39
   Table 3-5 Mortgage Rate Table by Interest Rate by Term - $/S1000 ............... 40
   Table 3-6 IRC 2006 Code and Energy Star Homes for Climate Zones 2 & 3 42
   Table 3-7 Economic Analysis of Energy Efficient Features ....................... 43
   Table 3-8 Energy Star Mandatory Requirements ....................................... 51

4. Air Leakage Sealing - Materials and Techniques
   Table 4-1 Typical Infiltration Rates ................................................... 57
   Table 4-2 Leaks and Sealants ............................................................ 59

5. Insulation Materials and Techniques
   Table 5-1 Fiberglass Batt Insulation Characteristics ................................. 74
   Table 5-2 Comparison of Envelope Insulation Materials .......................... 75
   Table 5-3 Cost Comparison of Insulating Materials ................................. 76
   Table 5-4 Economics of Framed Floor Insulation ..................................... 82
   Table 5-5 2x4 Framed Wall Problems and Solutions .................................. 86
   Table 5-6 Steel Wall Insulation Options ............................................... 94
   Table 5-7 Sheathing Costs ...................................................................... 96
   Table 5-8 Economics of Wall Insulation ............................................... 97
   Table 5-9 Typical Attic Insulation Costs ($/sq.ft.) ..................................... 100
   Table 5-10 Typical Blowing Chart for Loose-Fill Insulation ....................... 100
   Table 5-11 Economics of Attic Insulation ............................................. 103
   Table 5-12 Economics of Cathedral Ceiling Insulation ............................ 106

6. Windows and Doors
   Table 6-1 Economics of Energy Conserving Windows and Doors ............... 109
   Table 6-2 Cost Comparison of Window Alternatives .................................. 114
   Table 6-3 Sample Window Performance Characteristics .......................... 114
   Table 6-4 Summer and Winter Sun Angles ............................................ 119

7. Heating, Ventilation, and Air Conditioning
   No Tables

8. Duct Design and Sealing
   No Tables
9. **Water Heating, Appliances and Lighting**
   - Table 9-1 Typical Energy Costs for Appliances .......................... 165
   - Table 9-2 Fluorescent Lighting Guidelines .................................. 170
   - Table 9-3 Purchase and Operating Costs of Incandescent Lamps and CFLs .................. 170
   - Table 9-4 Sample Improved Lighting Design .................................. 171

10. **Energy Efficient Roofing**
    - Table 10-1 Cooling Performance During Unoccupied Period .................. 175
    - Table 10-2 Normalized Annual Savings & Demand Reductions .................. 175
    - Table 10-3 Characteristics of Various Metal Roof Types Ranked by Reflectance ...... 180
    - Table 10-4 Top Rated Membrane Products Typical Properties .................. 182
    - Table 10-5 Advantages and Disadvantages of Green Roofs .................. 184

11. **Fingertip Facts**
    - Table 11-1 Climatic Data for Louisiana .................................. 190
    - Table 11-2 Average Monthly Temperatures .................................. 190
    - Table 11-3 Comparative Climatic Data .................................. 191