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As shown in Figure 6. Summarizing the previous characteristics, the wind variation with height depends upon the surface roughness and the atmospheric stability conditions.

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The protocol has a part added through which an outstation recognizes whether the information is meant for it; if not, the information is sent to the next outstation. Cameron III, 2d at The government had indicated that it did not intend to call as witnesses the original authors of the Yahoo! The FND protocol is especially common in Germany, where it was developed. Therefore, the protocols have to be standardized.

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Controllers are interconnected with the control and automation-level network CLN. There is additional heat storage in a sanitary water pipelines system.

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Many of the appliances and systems have to be checked out and regulated for example, there is a need to hydraulically balance the pipes, to set the inflow grid and to set the control valves.

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BMSs can be very effective for this purpose. Practical research into urban climatology related to built form Energy consumption and urban spatial structure Energy efficiency and renewable energy potential versus city texture and configuration Research into practice for environmental urban planning and design Energy-efficient urban planning and design versus amenity, equity and aesthetics Overview 1 2 6 7 19 24 27 29 Architectural Design and Passive Environmental and Building Engineering Systems 36 Spyros Amourgis Introduction The building concept The building design process Passive systems in buildings 36 36 37 38 Environmental Issues of Building Design 46 Koen Steemers Introduction Context Site planning Building plan and section Courtyard and atrium spaces Building-use patterns Construction detail Natural lighting Designing for passive solar gains Strategies for natural ventilation Avoiding overheating and increasing comfort Artificial lighting systems Providing heat Services 46 47 49 50 52 53 54 55 55 57 58 59 59 60 vi 4 5 6 7 8 9 ENVIRONMENTAL DESIGN OF URBAN BUILDINGS Sustainable Design, Construction and Operation 63 Evangelos Evangelinos and Elias Zacharopoulos Introduction Sustainability and building Sustainable construction techniques and materials Recycling buildings Sustainable construction processes 63 63 65 69 70 Intelligent Controls and Advanced Building Management Systems 75 Sas˘o Medved Introduction Intelligent buildings Fundamentals of control systems Building management systems Examples of building management systems 75 76 76 79 86 Urban Building Climatology 95 Stavroula Karatasou, Mat Santamouris and Vassilios Geros Introduction The urban temperature Urban wind field Urban canyon effect How to improve the urban climate 95 96 100 103 111 Heat and Mass Transfer Phenomena in Urban Buildings 120 Samuel Hassid and Vassilios Geros Introduction Physics of heat transfer and rate equations Principles of heat transfer in buildings 120 121 123 Applied Lighting Technologies for Urban Buildings 146 Sas˘o Medved and Ciril Arkar Introduction Light Human sight and its characteristics Photometric quantities Sources of light Visual comfort requirements Requests with reference to daylighting and the duration of sun exposure for buildings in urban areas Light pollution Lighting and the use of energy in buildings 146 147 147 148 149 155 162 164 167 Case Studies 174 Koen Steemers Introduction Case study 1: Meletikiki office building Case study 2: Avax office building Case study 3: Ampelokipi residential building Case study 4: Bezigrajski dvor: An energy-efficient settlement in Ljubljana Case study 5: Commercial building with a double façade Case study 6: EURO centre commercial building with atrium Case study 7: Potsdamer Platz: Office and residential development, Berlin, Germany 174 176 183 189 195 200 206 212 CONTENTS 10 11 12 13 14 vii Case study 8: School of Engineering, De Montfort University, Leicester, UK Case study 9: Inland Revenue Office Headquarters, Nottingham, UK 216 220 Guidelines to Integrate Energy Conservation 225 Marc Blake and Spyros Amourgis Introduction General issues Design guidelines 225 226 232 Indoor Air Quality 245 Vassilios Geros Introduction Indoor air quality Sick building syndrome and building-related illness Indoor air quality design Indoor pollutants and pollutant sources International standards of indoor air quality Modelling indoor pollutants 245 246 246 247 251 254 255 Applied Energy and Resource Management in the Urban Environment 264 Sas˘o Medved Introduction Energy sources Energy use in cities Energy efficiency in the urban environment Water resources and management Material flows in cities 264 265 269 270 280 283 Economic Methodologies 294 Vassilios Geros Introduction Economic methodologies Discount techniques Non-discount techniques 294 294 295 300 Integrated Building Design 310 Koen Steemers Introduction An integrated building design system Principles of low-energy design Pre-design context Building design Building services The integrated building design system Interrelationships between design parameters Design parameters versus low-energy strategies Design parameters versus environmental systems Design parameters versus energy strategies 310 311 311 311 312 312 312 312 314 315 315 List of Tables 1. This makes maintenance and problemsolving substantially easier.

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