



# Solar Energy in Buildings: Thermal Balance for Efficient Heating and Cooling

*Dorota Chwieduk*

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*Solar Energy in Buildings* presents solar radiation fundamentals and their applications in buildings, supported by theoretical analysis and results of original simulation studies in solar energy availability, collection, and conversion for both active and passive use. In-depth coverage of energy balance and heat transfer in building envelopes is supported by the inclusion of calculations and case studies, while contextualizing within an integrated design approach.

- Explains the best uses of cutting-edge advances such as concentrated solar thermal, thermoelectric and polymetric materials
- Covers active and passive solar collection and conversion systems
- Provides energy balance calculations and case studies deriving from real installations connect theory and practice

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