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Sommario/riassunto	Almost half of the total energy produced in the developed world is inefficiently used to heat, cool, ventilate and control humidity in buildings, to meet the increasingly high thermal comfort levels demanded by occupants. The utilisation of advanced materials and passive technologies in buildings would substantially reduce the energy demand and improve the environmental impact and carbon footprint of building stock worldwide.Materials for energy efficiency and thermal comfort in buildings critically reviews the advanced building materials applicable for improving the built environment.