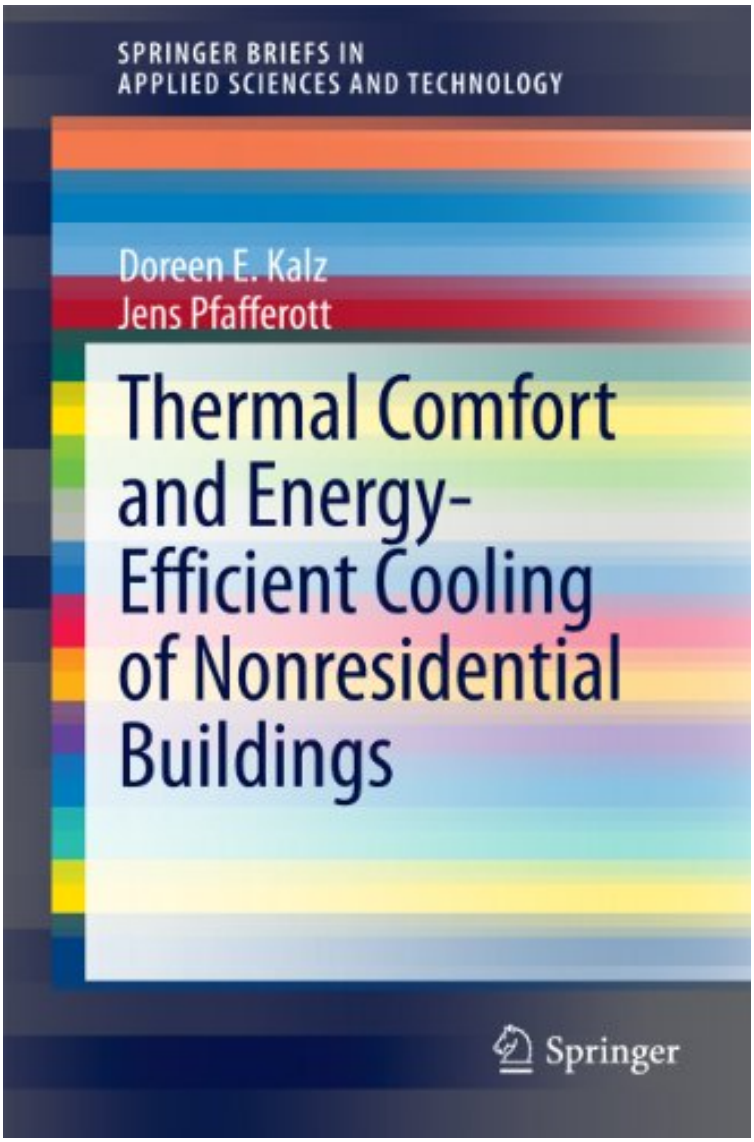
Thermal Comfort and Energy-Efficient Cooling of Nonresidential Buildings (SpringerBriefs in Applied Sciences and Technology)

Doreen E. Kalz, Jens Pfafferott
*DOC | *audiobook | ebooks | Download PDF | ePub*



#3424591 in eBooks 2014-03-26 2014-03-26File Name: B00J99S88O | File size: 74.Mb

Doreen E. Kalz, Jens Pfafferott : Thermal Comfort and Energy-Efficient Cooling of Nonresidential Buildings (SpringerBriefs in Applied Sciences and Technology) before purchasing it in order to gage whether or not it would be worth my time, and all praised Thermal Comfort and Energy-Efficient Cooling of Nonresidential Buildings

(SpringerBriefs in Applied Sciences and Technology):

This book supports HVAC planners in reducing the cooling energy demand, improving the indoor environment and designing more cost-effective building concepts. High performance buildings have shown that it is possible to go clearly beyond the energy requirements of existing legislation and obtaining good thermal comfort. However, there is still a strong uncertainty in day-to-day practice due to the lack of legislative regulations for mixed-mode buildings which are neither only naturally ventilated nor fully air-conditioned, but use a mix of different low-energy cooling techniques. Based on the findings from monitoring campaigns (long-term measurements in combination with field studies on thermal comfort), simulation studies, and a comprehensive review on existing standards and guidelines, this book acts as a commonly accessible knowledge pool for passive and low-energy cooling techniques.

From the Back CoverThis book supports HVAC planners in reducing the cooling energy demand, improving the indoor environment and designing more cost-effective building concepts. High performance buildings have shown that it is possible to go clearly beyond the energy requirements of existing legislation and obtaining good thermal comfort. However, there is still a strong uncertainty in day-to-day practice due to the lack of legislative regulations for mixed-mode buildings which are neither only naturally ventilated nor fully air-conditioned, but use a mix of different low-energy cooling techniques. Based on the findings from monitoring campaigns (long-term measurements in combination with field studies on thermal comfort), simulation studies, and a comprehensive review on existing standards and guidelines, this book acts as a commonly accessible knowledge pool for passive and low-energy cooling techniques.About the AuthorDr. Kalz and Dr. Pfafferott have been working in building physics and HVAC concepts for low-energy and net zero energy buildings for many years in industry, at Fraunhofer ISE and at the university level.