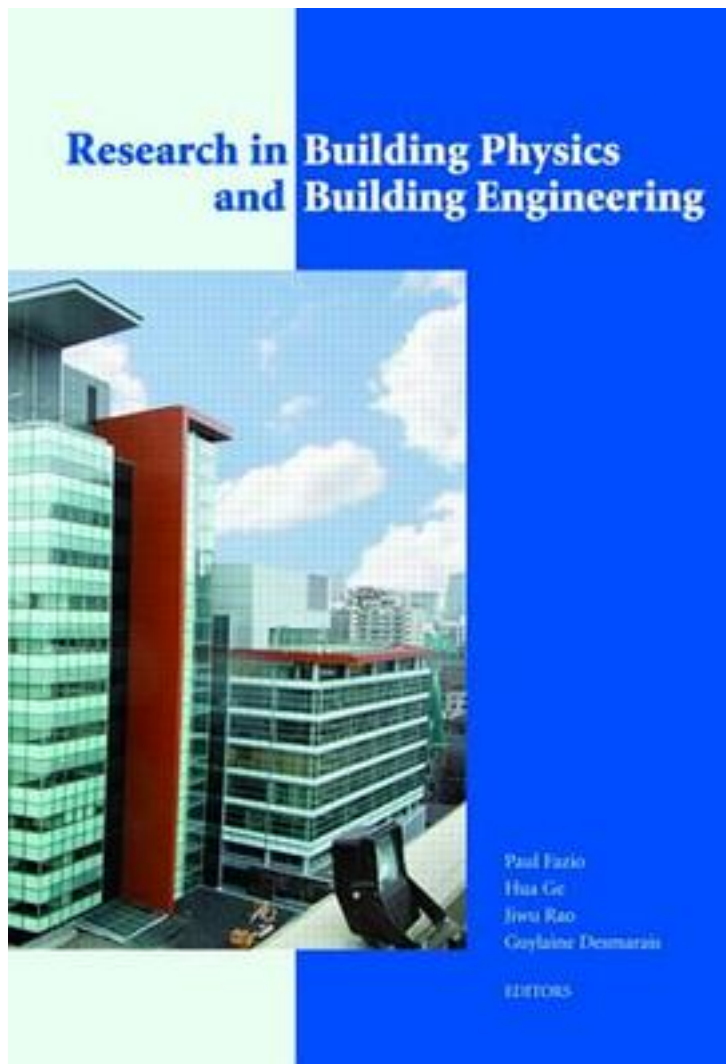


Research in Building Physics and Building Engineering



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Buildings influence people. They account for one third of energy consumption across the globe and represent an annual capital expenditure of 7 per cent-10 per cent of GNP in industrialized countries. Their lifetime operation costs can exceed capital investment. Building Engineering aims to make buildings more efficient, safe and economical. One branch of this discipline, Building Physics/Science, has gained prominence, with a heightened awareness of such phenomena as sick buildings, the energy crisis and sustainability, and considering the performance of buildings in terms of climatic loads and indoor conditions. "Research in Building Physics and Building Engineering" is a collection of the 124 papers presented at the Third International Building Physics Conference, August 27-31, 2006 at Concordia University in Montreal, Canada. Topics presented include: heat and mass transfer in building materials; heat, air and moisture transfer in building envelopes; whole building response to heat, air and moisture movement; indoor environment, including comfort, day-lighting, acoustics, and air quality; outdoor environment, including climate, wind-driven rain, and weather analysis. The book reflects the advanced level and high quality of research which Building Engineering, and Building Physics/Science in particular, have reached at the beginning of the twenty-first century. It will be a valuable resource to: engineers, architects, building scientists, consultants on the building envelope, researchers and graduate students.

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