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Autore	Wang Liangzhu Leon
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Altri autori (Persone)	GeHua ZhaiZhiqiang John QiDahai OufMohamed SunChanjuan WangDengjia
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Modeling and Building Simulations -- Indoor environment (including Health and Indoor Air Quality, Ventilation, COVID-19, thermal comfort, Thermal Comfort, fire safety) -- Occupant-Centric Building Design and Controls -- Building Renewables and Smart Grid -- Urban Microclimate and Energy (including urban Green Infrastructure, low/zero carbon emission buildings and communities) -- Smart Buildings and Smart Cities -- Resilience and Climate Change -- Building Mechanical System and Controls (including Thermal Storage).

Sommario/riassunto

This book is a compilation of selected papers from the 5th International Conference on Building Energy and Environment (COBEE2022), held in Montreal, Canada, in July 2022. The work focuses on the most recent technologies and knowledge of building energy and the environment, including health, energy, urban microclimate, smart cities, safety, etc. The contents make valuable contributions to academic researchers, engineers in the industry, and regulators of buildings. As well, readers encounter new ideas for achieving healthy, comfortable, energy-efficient, resilient, and safe buildings.
