

Performance Measurement Protocols for Commercial Buildings



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Performance Measurement Protocols For Commercial Buildings

Yi-Tong Ma



Performance Measurement Protocols For Commercial Buildings:

Performance Measurement Protocols for Commercial Buildings, 2010 Provides three levels of standardized protocols for assessing building performance that identify what how and how often to measure in six performance categories energy water thermal comfort indoor air quality lighting and acoustics Such protocols give feedback when performance does not match design intent and lend credibility to performance claims Provided by publisher

Performance Measurement Protocols for Commercial Buildings, 2012 Performance Measurement Protocols for Commercial Buildings Best Practices Guide is the how to guide for continuously evaluating and improving the performance of commercial buildings throughout their service life It is also intended to support integrated commissioning and all activities of the building's O and M team It is the book that facility managers building operators technicians consultants commissioning authorities architects and design engineers need to ensure that their buildings are green energy efficient highly productive healthy and attractive to others This Guide gives building owners and their consultants the practical performance measurement guidance to meet market demands for keeping operating costs down without sacrificing the health comfort and productivity of their highest cost component the building's occupants This book provides specific best practices in the areas of energy use water use and four elements of indoor environmental quality IEQ thermal comfort indoor air quality IAQ lighting daylighting and acoustics Using this guidance owners can be proactive on an ongoing basis to reduce costs through measurement and verification of their buildings environments This book is a follow on publication to ASHRAE's Performance Measurement Protocols for Commercial Buildings which describes what to measure how it is to be measured and how often it is to be measured to quantitatively assess the performance of commercial buildings This Guide provides the process and tools for performance evaluation and improvement and is user friendly phased and readily applicable with step by step procedures provided at three levels of application Basic Evaluation which uses observations of building characteristics perceptions of occupants and data from utility bills to characterize performance Diagnostic Measurement which uses physical measurements to diagnose problems indicated at the Basic Evaluation Level and to identify how performance can be improved Advanced Analysis which uses the results of the first two levels plus the results of professional investigative processes to identify specific actions for performance improvement

Methodology for Rating a Building's Overall Performance Based on the

ASHRAE/CIBSE/USGBC Performance Measurement Protocols for Commercial Buildings Hyojin Kim, 2013 This study developed and applied a field test to evaluate the American Society of Heating Refrigerating and Air Conditioning Engineers ASHRAE Chartered Institute of Building Services Engineers CIBSE United States Green Building Council USGBC Performance Measurement Protocols PMP for Commercial Buildings in a case study office building in central Texas As the first integrated protocol on building performance measurement the ASHRAE PMP accomplished its goal of providing the standardized protocols for measuring and comparing the overall performance of a building including energy water thermal

comfort Indoor Air Quality IAQ lighting and acoustics However several areas for improvement were identified such as conflicting results from different procedures or benchmarks provided in the ASHRAE PMP limited guidelines for performing the measurements lack of detailed modeling techniques graphical indices and clear benchmarks and some practical issues i e high cost requirements and time intensive procedures All these observations are listed as the forty issues including thirteen for energy five for water and twenty two for Indoor Environmental Quality IEQ Recommendations were developed for each issue identified For the selected high priority issues twelve new or modified approaches were proposed and then evaluated against the existing procedures in the ASHRAE PMP Of these twelve new or modified approaches the following are the most significant developments a more accurate monthly energy use regression model including occupancy a monthly water use regression model for a weather normalized comparison of measured water performance a method how to use a vertical temperature profile to evaluate room air circulation a method how to use L_{Ceq} L_{Aeq} difference as a low cost alternative to estimate low frequency noise annoyance a statistical decomposition method of time varying distribution of indices and a real time wireless IEQ monitoring system for the continuous IEQ measurements The application of the forty recommendations and the twelve new or modified approaches developed in this study to the ASHRAE PMP is expected to improve the applicability of the ASHRAE PMP which aligns the overall purpose of this study Finally this study developed a new single figure of merit rating system based on the ASHRAE PMP procedures The developed rating system is expected to improve the usability of the protocols The electronic version of this dissertation is accessible from <http://hdl.handle.net/1969.1/148375>

International Performance Measurement & Verification Protocol: Concepts and Practices for Improved Indoor Environmental Quality, Volume II, 2001 **Assessing the Validity, Reliability, and Practicality of ASHRAE's Performance Measurement Protocol** Gabrielle McMorow, 2017 In 2010 ASHRAE published Performance Measurement Protocols for Commercial Buildings which defines a standardized method of measuring and analyzing building performance in six different categories including energy water thermal comfort indoor air quality lighting and acoustics Each category within the PMP has three levels basic intermediate and advanced and with each category depth of analysis and exploration into building performance increases Tasks prescribed by the PMP were implemented in two diverse buildings located in Laramie WY with the goal of testing and evaluating the current protocol Based on experiences performing the protocol in this wide range of buildings we assess the validity reliability and practicality of the current Performance Measurement Protocols PMP In the context of PMP analysis validity is defined as the legitimacy of metrics and benchmarking criteria recommended by the PMP reliability deals with the accuracy and repeatability of the measurement methods and practicality concerns the cost feasibility and ease of measurement of the measurements required by the PMP The study found that many tasks prescribed by the PMP are in fact valid however can be difficult to repeat within a variety of building types Additionally many intermediate and advanced level measurements experiments require costly equipment and complex procedures that may not

be feasible for implementation within all facilities A summary of recommendations for inclusion in future editions of the PMP can be found in this document Building Performance Evaluation Wolfgang F.E. Preiser, Andrea E. Hardy, Ulrich Schramm, 2017-08-30 The main aim of this book is to present an intriguing retrospective of Building Performance Evaluation BPE as it evolved from Post Occupancy Evaluation POE over the past 25 years On one hand this is done by updating original authors chapter content of Building Evaluation the first edition published in 1989 That in turn is augmented by an orientation toward current and future practice on the other including new authors who are engaged in ongoing cutting edge projects Therefore individual methodology oriented chapters covering the fundamental principles of POE and BPE go along with major thematic chapters topics of which like sustainability or integration of new technologies are addressed in a diversity of case studies from around the globe Research methodologies and framework of POEs continue to evolve POEs are one step on the larger scale of BPE in understanding how buildings function after they are occupied This resource helps architects building owners and facility managers understand the implications and reactions to the facilities that they designed built and or commissioned By considering the whole process from conception to future uses of the building there can be a more holistic approach to the planning programming design construction occupancy and future adaptability of the structure This book is dedicated to first editor Wolfgang F E Preiser who passed away during the process of editing and reviewing chapters of this volume **Data-Driven Research on Characteristics of Operating Performance of Green Office Buildings**

Yang Geng, 2025-09-26 This book facilitates more comprehensive understandings of operating performance of green buildings and provides technical supports for high quality developments in building industry In recent years the development of green building is facing a transformation from quantity to quality The acquisition of actual performance data including energy consumption IEQ and occupant satisfaction and its in depth quantitative research are of great significance to comprehensively improve the quality of green buildings However there was a lack of high quality long term and large scale operating performance data of green buildings which resulted in shallow and incomplete cognitions of performance characteristics and failures to guide building operation In this thesis the author carries out pioneering researches on data collection characteristics cognition performance diagnosis and optimization i An intelligent IEQ monitoring and feedback system is developed for continuous data collection with a high spatial temporal resolution Based on that 63 buildings from different climate zones in China have been measured and a database with more than 100 million records is established including energy consumption indoor air temperature relative humidity CO2 PM2.5 illumination and occupant satisfaction ii Seasonal and regional distribution characteristics of IEQ in green office buildings are revealed as well as its quantitative correlation with energy consumption Both positive and negative effects of energy saving on thermal comfort are found and the negative effect is more significant in buildings with natural ventilation iii A series of data driven analysis and diagnosis models are proposed such as the IEQ diagnosis method based on multi dimensional dynamic field the regression model

between energy use and outdoor weather the coupling approach of data mining models and physical functions for building performance diagnosis and optimization Smart Zero-energy Buildings and Communities for Smart Grids Nikos Kampelis, Denia Kolokotsa, 2022-03-07 Smart zero energy buildings and communities have a major role to play in the evolution of the electric grid towards alignment with carbon neutrality policies The goal to reduce greenhouse gas emissions in the built environment can be pursued through a holistic approach including the drastic reduction of buildings energy consumption The state of the art in this field relates on the one hand to design methodologies and innovative technologies which aim to minimize the energy demand at the building level On the other hand the development of information and communication technologies along with the integration of renewable energy and storage provide the basis for zero and positive energy buildings and communities that can produce store manage and exchange energy at a local level This book provides a structured and detailed insight of the state of the art in this context based on the analysis of real case studies and applications **Journal of the House of Representatives of the United States** United States. Congress. House, 2009 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House

Effective Daylighting with High-Performance Facades Kyle Konis, Stephen Selkowitz, 2017-05-09 The book explores advanced building facade daylighting design practices based on diverse energy and human factor performance metrics It also defines effective daylighting by rethinking the simplified approach to glazing and facade systems to incorporate the local climate and the needs of building occupants as critical drivers of building performance design solutions and technological innovation It discusses state of the art approaches in the context of simulation based design workflows innovative technologies and real project case studies all targeting low and net zero energy solutions that enhance occupant comfort Readers benefit from a comprehensive approach that improves the feedback loop between design intent and performance in use The book is intended for architects lighting designers facade engineers manufacturers and building owners operators as well as advanced students

Unveiling the Magic of Words: A Report on "**Performance Measurement Protocols For Commercial Buildings**"

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