

# Assessing Building Performance



Edited by **Wolfgang FE Preiser** • **Jacqueline C Vischer**



# Assessing Building Performance

**Kim Fowler, Emily M. Rauch**



## **Assessing Building Performance:**

**Assessing Building Performance** Wolfgang F. E. Preiser, Jacqueline Vischer, 2005 The contributors in this volume introduce readers to methods of assessing building performance illustrated with case studies from around the world

**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

Enhancing Building Performance Shauna Mallory-Hill, Wolfgang F. E. Preiser, Christopher G. Watson, 2012-03-05 Building Performance Evaluation BPE informs and enhances the usability and sustainability of building designs with lessons learned from evaluation of building performance throughout the building life cycle from initial planning through occupancy to adaptive re use A key feature of BPE is that it examines design and technical performance of buildings alongside human performance criteria That is it seeks to examine facilities in order to determine whether they will work for the people that will use and occupy them Rigorous BPE helps to improve design practice by providing feedback on the effectiveness of the choices made about the building to ensure that its design is optimised for stakeholders uses The overarching theme for Enhancing Building Performance is to present the next generation of BPE work The book provides an updated systematic approach for BPE as well as chapters written by experts from around the world who demonstrate how to apply BPE to enhance building design Topics covered include evidence based and integrative design processes evaluation methods and tools and education and knowledge transfer In addition case studies provide specific examples of how BPE has been used to study such things as the impact of workplace design on human productivity and innovation Written primarily for design professionals and facility managers who wish to use BPE to deliver improved building performance that is responsive to the needs of stakeholders Enhancing Building Performance will also be of great value to researchers and students across a range

of architecture and construction disciplines *Assessing Building Performance* Wolfgang Preiser, Jacqueline Vischer, 2006-08-11 The building performance evaluation BPE framework emphasizes an evaluative stance throughout the six phases of the building delivery and life cycle 1 strategic planning needs analysis 2 program review 3 design review 4 post construction evaluation review 5 post occupancy evaluation and 6 facilities management review adaptive reuse The lessons learned from positive and negative building performance are fed into future building delivery cycles The case studies illustrate how this basic methodology has been adapted to a range of cultural contexts and indicates the positive results of building performance assessment in a wide range of situations Learning from Our Buildings National Research Council, Board on Infrastructure and the Constructed Environment, Federal Facilities Council, 2002-01-29 In 1986 the FFC requested that the NRC appoint a committee to examine the field and propose ways by which the POE process could be improved to better serve public and private sector organizations The resulting report *Post Occupancy Evaluation Practices in the Building Process Opportunities for Improvement* proposed a broader view of POEs from being simply the end phase of a building project to being an integral part of the entire building process The authoring committee recommended a series of actions related to policy procedures and innovative technologies and techniques to achieve that broader view In 2000 the FFC funded a second study to look at the state of the practice of POEs and lessons learned programs among federal agencies and in private public and academic organizations both here and abroad The sponsor agencies specifically wanted to determine whether and how information gathered during POE processes could be used to help inform decisions made in the programming budgeting design construction and operation phases of facility acquisition in a useful and timely way To complete this study the FFC commissioned a set of papers by recognized experts in this field conducted a survey of selected federal agencies with POE programs and held a forum at the National Academy of Sciences on March 13 2001 to address these issues This report is the result of those efforts Building Performance Evaluation in Non-domestic Buildings Michelle Agha-Hosseini, Sarah Birchall, Saryu Vatal, 2015 This guide explains how to use Building Performance Evaluation BPE to address issues of inefficiency and user dissatisfaction It is a general introduction to BPE and explains why it is important and how it can be carried out Building Performance Analysis Pieter de Wilde, 2018-05-31 Explores and brings together the existent body of knowledge on building performance analysis Shortlisted in the CIBSE 2020 Building Performance Awards Building performance is an important yet surprisingly complex concept This book presents a comprehensive and systematic overview of the subject It provides a working definition of building performance and an in depth discussion of the role building performance plays throughout the building life cycle The book also explores the perspectives of various stakeholders the functions of buildings performance requirements performance quantification both predicted and measured criteria for success and the challenges of using performance analysis in practice Building Performance Analysis starts by introducing the subject of building performance its key terms definitions history and challenges It then develops a theoretical foundation for

the subject explores the complexity of performance assessment and the way that performance analysis impacts on actual buildings In doing so it attempts to answer the following questions What is building performance How can building performance be measured and analyzed How does the analysis of building performance guide the improvement of buildings And what can the building domain learn from the way performance is handled in other disciplines Assembles the current body of knowledge on building performance analysis in one unique resource Offers deep insights into the complexity of using building performance analysis throughout the entire building life cycle including design operation and management Contributes an emergent theory of building performance and its analysis Building Performance Analysis will appeal to the building science community both from industry and academia It specifically targets advanced students in architectural engineering building services design building performance simulation and similar fields who hold an interest in ensuring that buildings meet the needs of their stakeholders

*Assessing Green Building Performance* Kim Fowler, Emily M. Rauch, 2008

[Building Performance Evaluation in Domestic Buildings](#) Michelle Agha-Hosseini, Sarah Birchall, Saryu Vatal, 2016

[Statistical Methods for Assessing Building Performance](#) Audrey G. Kaplan, Canada. Public Works Canada. Architectural and Engineering Services, 1988

*Seismic Performance Assessment of Buildings: Implementation guide. Building performance model* Applied Technology Council, 2012

[Seismic Performance Assessment of Buildings: Methodology. Methodology overview](#) Applied Technology Council, 2012

*Post-Occupancy Evaluation (Routledge Revivals)* Wolfgang F. E. Preiser, Edward White, Harvey Rabinowitz, 2015-07-24 Post occupancy evaluation focusing on building s occupants and their needs provides insight into the consequences of past design decisions and forms a sound basis for creating better buildings in the future This book first published in 1988 includes a review of the evolution of the field a conceptual frame work for POE and pragmatic information on planning conducting and reporting POEs Post Occupancy Evaluation categorizes the approaches to building evaluation by describing the three levels of POE effort indicative investigative and diagnostic each differing in terms of time resources and personnel needed In its scope Post Occupancy Evaluation is both comprehensive and specific professionals in the design and planning disciplines will find it an invaluable resource for understanding the theory behind POE s and the procedures needed to put the theory into practice

**EDRA; Proceedings of the Annual Environmental Design Research Association Conference** Environmental Design Research Association, 2007

[Assessing Green Building Performance](#) Kim M. Fowler, 2008

[Building Evaluation Techniques](#) George Baird, 1996

Publisher Description ["Code of Massachusetts regulations, 2004"](#) , 2004 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

[Leed™ Energy Performance Modeling and Evaluation of the S.T. Dana Building Renovations](#) Sharada Gundala, 2003

**Architecture Beyond Criticism** Wolfgang F. E. Preiser, Aaron T. Davis, Ashraf M. Salama, Andrea Hardy, 2014-11-27 For the first time this book demonstrates that the two paradigms of architectural criticism and performance evaluation can not only co exist but

complement each other in the assessment of built works As architecture takes more principled stances worldwide from environmental sustainability to social cultural and economic activism this book examines the roles of perceived and measured quality in architecture By exploring in tandem both subjective traditional architectural criticism and environmental design and performance evaluation and its objective evaluation criteria the book argues that both methodologies and outcomes can achieve a comprehensive assessment of quality in architecture Curated by a global editorial team the book includes Contributions from international architects and critics based in the UK USA Brazil France Qatar Egypt New Zealand China Japan and Germany Global case studies which illustrate both perspectives addressed by the book and comparative analyses of the findings A six part organization which includes introductions and conclusions from the editors to help guide the reader and further illuminate the contributions By presenting a systematic approach to assessing building performance design professionals will learn how to improve building design and performance with major stakeholders in mind especially end users occupants

**EDRA38** Environmental Design Research Association. Annual Conference,2007

## Reviewing **Assessing Building Performance**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Assessing Building Performance**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Assessing Building Performance Introduction**

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