

Research in Building Physics and Building Engineering



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EDITORS

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Research In Building Physics

J. Carmeliet, H. Hens, G. Vermeir



Research In Building Physics:

Research in Building Physics and Building Engineering Paul Fazio, Hua Ge, Jiwu Rao, Guylaine

Desmarais, 2020-11-26 Buildings influence people They account for one third of energy consumption across the globe and represent an annual capital expenditure of 7% 10% 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 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

Research in Building Physics J. Carmeliet, H. Hens, G. Vermeir, 2020-12-17 This text provides a broad view of the

research performed in building physics at the start of the 21st century The focus of this conference was on combined heat and mass flow in building components performance based design of building enclosures energy use in buildings sustainable construction users comfort and health and the urban micro climate

Applied Building Physics Hugo S. L.

Hens, 2016-02-02 Bad experiences with construction quality the energy crises of 1973 and 1979 complaints about sick buildings thermal acoustical visual and olfactory discomfort the need for good air quality the move towards more sustainability all these have accelerated the development of a field that for a long time was hardly more than an academic exercise building physics The discipline embraces domains such as heat and mass transfer building acoustics lighting indoor environmental quality and energy efficiency In some countries fire safety is also included Through the application of physical knowledge and its combination with information coming from other disciplines the field helps to understand the physical phenomena governing building parts building envelope whole building and built environment performance although for the last the wording urban physics is used Building physics has a real impact on performance based building design This volume on Applied Building Physics discusses the heat air and moisture performance metrics that affect building design construction and retrofitting

Research in Building Physics J. Carmeliet, H. Hens, G. Vermeir, 2003-01-01 This text provides a broad

view of the research performed in building physics at the start of the 21st century The focus of this conference was on combined heat and mass flow in building components performance based design of building enclosures energy use in buildings sustainable construction users comfort and health and the urban micro climate

Thermal Research in the Field of Building Physics with Application to Buildings Claes Bankvall, 1990

Building Physics, 1996

Building Physics:

Heat, Air and Moisture, includes eBook Hugo S. L. Hens, 2017-12-04 Bad experiences with construction quality the energy crises of 1973 and 1979 complaints about sick buildings thermal acoustical visual and olfactory discomfort the need

for good air quality the move towards more sustainability all these have accelerated the development of a field that for a long time was hardly more than an academic exercise building physics in English speaking countries sometimes referred to as building science The discipline embraces domains such as heat and mass transfer building acoustics lighting indoor environmental quality and energy efficiency In some countries fire safety is also included Through the application of physical knowledge and its combination with information coming from other disciplines the field helps to understand the physical phenomena governing building parts building envelope whole buildings and built environment performance although for the last the wording urban physics is used Today building physics has become a key player on the road to a performance based building design The book deals with the description analysis and modeling of heat air and moisture transport in building assemblies and whole buildings with main emphasis on the building engineering applications including examples The physical transport processes determine the performance of the building envelope and may influence the serviceability of the structure and the whole building Compared to the second edition in this third edition the text has partially been revised and extended

Building Physics - Heat, Air and Moisture Hugo S. L. Hens, 2017-10-16 Bad experiences with construction quality the energy crises of 1973 and 1979 complaints about sick buildings thermal acoustical visual and olfactory discomfort the need for good air quality the move towards more sustainability all these have accelerated the development of a field that for a long time was hardly more than an academic exercise building physics in English speaking countries sometimes referred to as building science The discipline embraces domains such as heat and mass transfer building acoustics lighting indoor environmental quality and energy efficiency In some countries fire safety is also included Through the application of physical knowledge and its combination with information coming from other disciplines the field helps to understand the physical phenomena governing building parts building envelope whole buildings and built environment performance although for the last the wording urban physics is used Today building physics has become a key player on the road to a performance based building design The book deals with the description analysis and modeling of heat air and moisture transport in building assemblies and whole buildings with main emphasis on the building engineering applications including examples The physical transport processes determine the performance of the building envelope and may influence the serviceability of the structure and the whole building Compared to the second edition in this third edition the text has partially been revised and extended

International Directory of Building Research Information and Development Organizations Studies and Documentation, International Council for Building Research, 2006-01-16 Every entry follows a standard pattern after the address and telephone number of the institution there is a brief description of its history and financial support followed by the names of the senior staff total number of staff the institution s structure and services its main research programmes and a list of its publications For this new edition a subject index has been added allowing the reader to identify centres of research activity on individual construction topics throughout the world The world wide

investment in construction industry research is enormous This unique directory is a guidebook to that investment which will enable its readers to isolate sources of advice on practical problems information on national standards and requirements and potential research collaborators

Applied Building Physics Hugo S. L. Hens,2012-01-09 Die Energiekrise der 1970er Jahre häufig auftretende Feuchteprobleme Klagen über das Sick Building Syndrom und mangelnden Komfort hinsichtlich Raumklima und Behaglichkeit und nicht zuletzt das Bemühen um Nachhaltigkeit haben die Bauphysik zu einem Innovationsmotor auf dem Gebäudesektor gemacht Dabei war die gesellschaftliche Forderung nach Energieeinsparung in Gebäuden ohne Gebrauchseinschränkungen der Auslöser für die ganzheitliche Planung Wie alle Ingenieurwissenschaften ist auch die Bauphysik anwendungsorientiert weshalb sich nach einem ersten Buch über die Grundlagen das vorliegende zweite Buch mit den Hintergründen der Gebrauchstauglichkeit und den Anforderungen an Energieeffizienz in Gebäuden befasst Außenklimabedingungen und Raumklimaberechnungen werden diskutiert Energieverluste und -gewinne werden für Gebäude und separat für die Gebäudehülle untersucht Die wichtigen physikalischen Eigenschaften für den gekoppelten Wärme- und Feuchtetransport durch Baukonstruktionen werden für zahlreiche Materialien aufgeklärt Für das Buch stützt sich der Autor auf seine Erfahrungen aus 35 Jahren Lehre der Bauphysik für Architekten und Bauingenieure und 40 Jahre Tätigkeit in der Forschung und als Beratender Ingenieur

Package - Building Physics and Applied Building Physics 4e H. Hens,2017-06-21
Research on Building Structures and Building Physics A. Th Vermeltfoort,1992 **Building Physics** Sašo Medved,2021-10-01 The book presents the theoretical background of building physics dealing with the evaluation of physical phenomena related to heat transfer and energy use in buildings water and water vapour transfer in building structures daylighting and electric lighting of buildings sound transmission in building structures and protection against noise the occurrence and spread of fires in buildings and the thermal response of cities It contains numerical and computational evaluation methods numerous computational case studies and examples of experimental analyses The book demonstrates that the considered physical processes affect the quality of living and working comfort in indoor and outdoor environment

Research on Building Physics Dariusz Gawin,Tomasz Kisilewicz,Politechnika Łódzka. Wydawnictwo,2010

Building Physics and Applied Building Physics - Package Hugo S. L. Hens,2012-09-24 Bad experiences with construction quality the energy crises of 1973 and 1979 complaints about sick buildings thermal acoustical visual and olfactory discomfort the move towards more sustainability have all accelerated the development of a field which until 35 years ago was hardly more than an academic exercise building physics The societal pressure to diminish energy consumption in buildings without impairing usability acted as a trigger to activate the whole notion of performance based design and construction Through the application of existing physical knowledge and the combination with information coming from other disciplines the field helps to understand the physical performance of building parts buildings and the built environment and translates it into correct design and construction As with all engineering sciences Building Physics is oriented towards

application which is why after a first book on fundamentals a second volume examines performance rationale and performance requirements Outdoor and indoor climate conditions are described and calculation values are discussed the performance concept is specified at the building level and at the building envelope level and heat air moisture material properties are defined Building Physics ,1991 This reports presents activities on research and development in the field of Building Physics The activities include thermal insulation airtightness moisture radon indoor environment This reports also consists of external publications via articles and contributions to symposia etc Furthermore a list of all published reports 1976 1991 pp 147 152 *The Division of Building Research* National Research Council Canada. Division of Building Research,1950 **Research in Industry the Basis of Economic Progress** Arthur Percy Morris Fleming,James George Pearce,1922 *Research and Development in Building Physics During the Last 25 Years* Lars Erik Nevander,Arne Elmroth,1992 College of Literature, Science, and the Arts University of Michigan. College of Literature, Science, and the Arts,1923

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