

Building Physics Heat Air And Moisture

Building Physics - Heat, Air and Moisture A TEXT BOOK OF PHYSICS: HEAT A Handbook of Sustainable Building Design and Engineering Science Performance-Based Building Design English Mechanic and Mirror of Science Injuresoul Science for all. Ed. by R. Brown First steps in science. Heat Contributions to Molecular Physics in the Domain of Radiant Heat a Series of Memoirs Published in the 'Philosophical Transactions' and 'Philosophical Magazine,' with Additions by John Tyndall English Mechanic and Mirror of Science and Art The Popular Science Monthly National Solar Energy Education Directory The quarterly journal of science and annals of mining, metallurgy, engineering, industrial arts, manufactures, and technology Chemical News and Journal of Industrial Science Science Made Easy: a Series of Familiar Lectures on the Elements of Scientific Knowledge Most Required in Daily Life ... A course of elementary reading in science and literature, compiled by J.M. M'Culloch Quarterly Journal of Science The Journal of Science Building Physics - Heat, Air and Moisture Hugo S. L. C. Hens J. H. POYNTING SC.D., F.R.S. Dejan Mumovic John Michels (Journalist) Hugo S. L. Hens Augustine Joseph Hickey Duganne Science Basil Arnold John Tyndall Thomas Twining (of Perryn House, Twickenham.) James Melville M'Culloch Hugo S. L. Hens

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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 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 this book is the result of thirty years teaching research and consultancy activity of the author the book discusses the theory behind the heat and mass transport in and through building components steady and non steady state heat conduction heat convection and thermal radiation are discussed in depth followed by typical building related thermal concepts such as reference temperatures surface film coefficients the thermal transmissivity the solar transmissivity thermal bridging and the periodic thermal properties water vapour and water vapour flow and moisture flow in and through building materials and building components is analyzed in depth mixed up with several engineering concepts which allow a first order analysis of phenomena such as the vapour balance the mold mildew and dust mites risk surface condensation sorption capillary suction rain absorption and drying in a last section heat and mass transfer are combined into one overall model staying closest to the real hygrothermal response of building components as observed in field experiments the book combines the theory of heat and mass transfer with typical building engineering applications the line from theory to application is dressed in a correct and clear way in the theory oversimplification is avoided this book is the result of thirty years teaching research and consultancy activity of the author

the combined challenges of health comfort climate change and energy security cross the boundaries of traditional building disciplines this authoritative collection focusing mostly on energy and ventilation provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges a handbook of sustainable building engineering covers how to design engineer and monitor a building in a manner that minimises the emissions of greenhouse gases how to adapt the environment fabric and services of existing and new buildings to climate change how to improve the environment in and around buildings to provide better health comfort security and productivity and provides crucial expertise on monitoring the performance of buildings once they are occupied the authors explain the principles behind built environment engineering and offer practical guidance through international case studies

vols for 1911 13 contain the proceedings of the helminothological society of washington issn 0018 0120 1st 15th meeting

dieses dritte buch einer dreiteiligen reihe über bauphysik und ihre anwendung befasst sich mit dem einfluss der anforderungen nach dem performance konzept auf die planung und den bau von gebäuden am anfang steht die darstellung der funktionalen anforderungen an gebäude gefolgt von der erörterung der materialien die erforderlich sind um ein funktionales wärme und

feuchteverhalten zu gewährleisten anschließend werden die vorbereitung der baustelle der aushub die fundamente die unterirdischen gebäudeteile übliche tragstrukturen fußbodenaufbauten außenwandtypen verschiedene dachsysteme innenwände fenster außentüren glasfassaden balkone schächte schornsteine treppen holzrahmenbau wand boden und deckenabschlüsse erläutert dabei werden nicht nur die auf wärme luft und feuchte bezogenen messgrößen betrachtet sondern auch das tragverhalten die dauerhaftigkeit der brandschutz die akustik die instandhaltung die nachhaltigkeit und die baubarkeit diskutiert abschließend werden risiken in den blick genommen die durch typische mängel verursacht werden können das werk gründet neben der jahrelangen lehr und forschungstätigkeit sowie gutachter und instandsetzungspraxis des autors auf einer reihe nationaler und internationaler literatur weshalb jedes kapitel mit einer ausführlichen liste der berücksichtigten veröffentlichungen endet gegenüber der 1 auflage in zwei bänden wurde der stoff für mehr Übersichtlichkeit in einem buch zusammengefasst wo sinnvoll und notwendig wurden kapitel umgeschichtet erweitert und umformuliert so dass ihre anzahl von 28 auf 20 reduziert werden konnte baugruben und fundamente bilden jetzt ein gemeinsames kapitel während die anforderungen an außenwände und dächer einheitlich betrachtet werden und in acht kapiteln über die gebäudehülle davon fünf über außenwände und drei über dachkonstruktionen zur auswahl stehen es schließen sich die innenwände und andere spezifische gebäudeteile an gefolgt von einem kapitel über fenster außentüren und glasfassaden die letzten drei kapitel befassen sich mit dem holzrahmenbau dem innenausbau und der risikobetrachtung alle kapitel wurden kritisch durchgesehen aktualisiert und wo nötig mit zusätzlichen abbildungen versehen so dass die erfahrungen aus 38 jahren lehrstätigkeit für architektur und bauingenieurstudenten 36 jahren forschung und 53 jahren beratungstätigkeit eingeflossen sind

erfahrungen mit schäden an gebäuden die energiekrise zwischen 1973 und 1979 klagen über das sick building syndrom mangelhafter komfort hinsichtlich raumklima schallschutz und lärmschutz das bedürfnis nach behaglichkeit und guter luftqualität die entwicklung hin zu energieeffizienz dekarbonisierung und nachhaltigkeit all dies hat die entwicklung einer disziplin beschleunigt die lange zeit kaum mehr als eine akademische übung war die bauphysik sie vereint thermodynamik und strömungslehre bau und raumakustik tageslicht und beleuchtung raumluftqualität energieeffizienz und in einigen ländern auch den brandschutz zu einem wissensgebiet die anwendung der physikalischen grundlagen und ihre zusammenführung mit den erkenntnissen aus anderen disziplinen fördert das verständnis über das physikalische verhalten von bauteilen gebäudehüllen gebäuden bis hin zur gebauten umwelt was sich in der stadtbauphysik widerspiegelt heute ist die bauphysik ein wichtiger akteur auf dem weg zu leistungsfähigen gebäuden hinsichtlich gebrauchstauglichkeit und energieeffizienz in neubau und bestand dieses buch befasst sich mit dem wärme luft und feuchtetransport in baukonstruktionen gebäudeteilen und ganzen gebäuden mit schwerpunkt auf den anwendungen in der planungspraxis im vergleich zur dritten auflage wurde diese vierte auflage in kapitel 1 um die physikalische bestimmung der wärmeleitfähigkeit von materialien sowie eine ausführliche diskussion aller auswirkungen dickerer dämmschichten erweitert in kapitel 2 wurden zusätzliche informationen zum winddruck und zur bewertung der

tauwasserbildung im inneren von bauteilen hinzugefügt während ein neues kapitel 4 über materialeigenschaften aufgenommen wurde das gesamte buch einschließlich der abbildungen wurde überarbeitet und wo nötig neu strukturiert

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