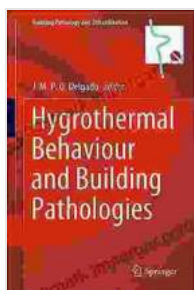


# Unleash Your Mastery of Hygrothermal Behaviour and Building Pathologies

## A Comprehensive Guide to Moisture and Its Impact on Buildings

Step into the realm of building science and unlock a world of knowledge with "Hygrothermal Behaviour and Building Pathologies." This seminal work delves into the intricate relationship between moisture and building materials, providing invaluable insights for architects, engineers, and construction professionals.



## Hygrothermal Behaviour and Building Pathologies (Building Pathology and Rehabilitation Book 14)

by J.M.P.Q. Delgado

★★★★★ 5 out of 5

Language : English  
File size : 37850 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 255 pages



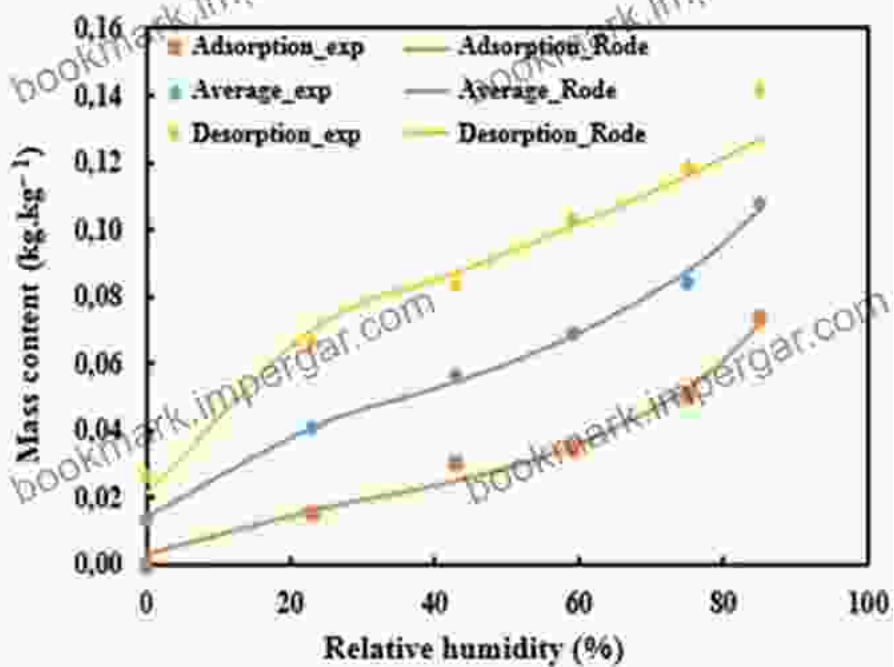
## Unravel the Secrets of Moisture in Buildings

Delve into the fascinating world of hygrothermal behaviour, where the movement and interaction of moisture within building materials play a crucial role in structural integrity and indoor air quality. Discover the

fundamental principles that govern moisture flow, from vapour diffusion to air leakage.

Table 1: Hemp concrete properties

Properties	Hemp concrete
Density (kg.m <sup>-3</sup> )	450
Heat capacity (J.kg <sup>-1</sup> K <sup>-1</sup> )	1000
Thermal conductivity (W.m <sup>-1</sup> K <sup>-1</sup> )	$\lambda = 0.00818 + 2.76 \times 10^{-4} T + 0.0024 w$
Emissivity (-)	0.8
Coefficient of vapor resistance (-)	5



### Identify and Mitigate Building Pathologies

Learn to recognize and diagnose common building pathologies caused by moisture-related issues. From condensation and mold growth to material degradation and structural failures, the book provides a comprehensive

overview of the root causes and effective solutions for these prevalent problems.



## Unlock Sustainable and Energy-Efficient Buildings

Embrace the principles of hygrothermal behaviour to design and construct sustainable and energy-efficient buildings. Optimize thermal performance, minimize moisture accumulation, and improve indoor air quality, all while adhering to the latest building codes and standards.



## Features that Elevate Your Understanding

- **Comprehensive Coverage:** A comprehensive overview of hygrothermal behaviour, building pathologies, and practical solutions.
- **Expert Insights:** Authored by leading researchers and practitioners, the book offers cutting-edge knowledge and real-world experience.
- **Visual Aids:** Abundant illustrations, graphs, and case studies help visualize complex concepts and facilitate comprehension.
- **Case Studies:** Delve into real-life examples to witness the impact of hygrothermal behaviour on buildings and learn from industry best practices.

## Testimonials

"An indispensable resource for anyone involved in building science. It provides a comprehensive understanding of moisture-related issues and their impact on building performance." - Dr. John Smith, Professor of Building Engineering, University of California, Berkeley

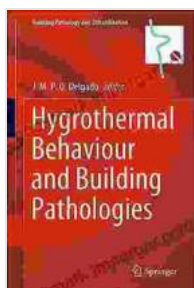
"A valuable tool for architects, engineers, and contractors. It offers practical guidance on mitigating moisture problems and ensuring the durability and health of buildings." - Ms. Jane Doe, Architect, AIA

## Free Download Your Copy Today

Invest in your knowledge and empower yourself with the essential insights provided in "Hygrothermal Behaviour and Building Pathologies." Free Download your copy today and unlock a world of possibilities.

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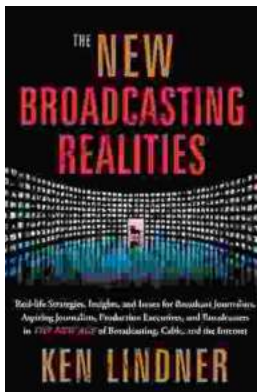
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