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PCM-Enhanced Building Components : Jan Kosny : 9783319375441

A side-by-side thermal performance comparison of the PCM wall containing DRI and a traditional 2×4 wood frame wall demonstrated a potential for steady-state and dynamic energy savings resulting from application of a multilayer dynamically working batt facing containing PCM-enhanced foam and low-e surfaces.

FieldTesting of Nano-PCM-Enhanced Building Envelope ...

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a variety of ready-made PCM-enhanced building products on the market, including insulations, gypsum boards, panel products, concrete blends, ready-made plaster blends, windows and window attachment products. Researchers in the US and Europe reported that use of PCM-enhanced foam insulation (Kosny et al, 2007 and

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PCM-Enhanced Building Components An Application of Phase Change Materials in Building Envelopes and Internal Structures. Authors: Kosny, Jan Free Preview

Use of PCM Enhanced Insulation in the Building Envelope

PCM-enhanced building components : an application of phase change materials in building envelopes and internal structures. [Jan Ko?ny] -- Presenting an overview of the use of Phase Change Materials (PCMs) within buildings, this book discusses the performance of PCM-enhanced building envelopes.

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Building Enclosures and Materials: PCM Enhanced Building ...

PCM-Enhanced Building Components: An Application of Phase Change Materials in Building Envelopes and Internal Structures (Engineering Materials and Processes) 2015th Edition by Jan Ko?ny (Author)

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(PCMs) within buildings, this book discusses the performance of PCM-enhanced building envelopes.

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Laboratory (ORNL), PCM is used as an integral part of the building thermal envelope.

Microencapsulated paraffinic PCM is positioned in the wall cavity or installed as a part of the attic insulation system. INTRODUCTION The authors anticipate that new type of PCM-enhanced building components could have a high

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Thermal Performance of PCM-Enhanced Building Envelope Systems

A new generation of PCM-enhanced building components could have a high potential for successful adoption in U.S. buildings because of their ability to reduce energy consumption for space conditioning and reduce peak loads.

Pcm-enhanced Building Components - Kosny, Jan ...

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PCM-enhanced building components : an application of phase change materials in building envelopes and internal structures Subject Cham [u.a.], Springer, 2015

PCM-Enhanced Building Components, An Application of Phase ...

PCM Enhanced Building Envelopes Research Motivation This research is focused on analyzing building envelopes that had been enhanced with phase change materials (PCMs), which can simultaneously reduce total cooling loads and shift peak-hour loads in residential and commercial buildings.

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Engineering Materials And Processes

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PCM-Enhanced Building Components eBook by Jan Ko?ny ...

nano-PCM was incorporated in gypsum boards, which are commonly used as interior wallboard on walls in residential construction. Three prototype nano-PCM-enhanced interior wallboards were produced and were installed in a natural exposure test (NET) facility in Charleston, SC, for testing. For comparison, two types of control panels were installed:

PCM-enhanced building components : an application of phase ...

Pcm Enhanced Building Components: An Application Of Phase Change Materials In Building Envelopes And Internal Structures. Presenting an overview of the use of Phase Change Materials (PCMs) within buildings, this book discusses the performance of PCM-enhanced building envelopes.

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