Kurt Kielsgaard Hansen - DTU Orbit (05/05/2019)

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Materials and Durability

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Research outputs:

A round robin campaign on the hygric properties of porous building materials
Research output: Contribution to conference › Paper – Annual report year: 2019 › Research › peer-review

Durability of vertically cast mortar joints in Pearl-Chain Bridges
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Evaluation of freeze-thaw durability of pervious concrete by use of operational modal analysis
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Influence of alkali-silica reaction and crack orientation on the uniaxial compressive strength of concrete cores from slab bridges
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Lichen growth on concrete elements for sustainable facade design
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

Obituary: Preben Hoffmeyer (1939-2018)
Research output: Contribution to journal › Comment/debate – Annual report year: 2018 › Communication

Performance of hydrophobized historic solid masonry – Experimental approach
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Residual shear strength of a severely ASR-damaged flat slab bridge
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Self-compacting pervious concrete mix design for permeable concrete soakaway rings
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Time Domain Reflectometry
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2018 › Research › peer-review

Alkali Release from Typical Danish Aggregates to Potential ASR Reactive Concrete
Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review
Mix design for improved strength and freeze-thaw durability of pervious concrete fill in Pearl-Chain Bridges
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Moisture damage with magnesium oxide boards in Danish facade structures
Research output: Contribution to journal › Conference article – Annual report year: 2017 › Research › peer-review

A lime based mortar for thermal insulation of medieval church vaults
Research output: Contribution to conference › Paper – Annual report year: 2016 › Research › peer-review

Assessment of Severely ASR Damaged Bridges: From Diagnosis to Structural Effects
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Evaluation and Comparison of Freeze-Thaw Tests and Air Void Analysis of Pervious Concrete
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Experimental investigation of different fill materials in arch bridges with particular focus on Pearl-Chain Bridges
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Frost susceptibility of sub-base gravel used in Pearl-Chain Bridges: an experimental investigation
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Magnesium-oxide boards cause moisture damage inside facades in new Danish buildings
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Pervious concrete fill in Pearl-Chain Bridges: Using small-scale results in full-scale implementation
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Research output: Book/Report › Book – Annual report year: 2016 › Research › peer-review

Shear capacity of ASR damaged structures – in-depth analysis of some in-situ shear tests on bridge slabs
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Homogeneity and Strength of Mortar Joints in Pearl-Chain Bridges
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Using X-ray transmission/attenuation to quantify fluid absorption in cracked concrete
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Alkali-Silica Reaction in Reinforced Concrete Structures, Part I: Material Properties and Crack Orientation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Alkali-Silica Reaction in Reinforced Concrete Structures, Part II: Shear Strength of Severe ASR Damaged Concrete Beams
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review
Can painted glass felt or glass fibre cloth be used as vapour barrier?
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Experimental Study of Properties of Pervious Concrete used for Bridge Superstructure
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Frost Resistance and Permeability of Cement Stabilized Gravel used as Filling Material for Pearl-Chain Bridges
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Measurement of water vapour transport through a porous non-hygroscopic material in a temperature gradient
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Moisture assessment by fast and non-destructive in situ measurements
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Shrinkage Properties of Cement Stabilized Gravel
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Non-isothermal Laboratory Measurements of Moisture Profiles in Calcium Silicate for Interior Insulation Applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

The effects of moisture and temperature variations on the long term durability of polymer concrete
Research output: Contribution to journal › Conference article – Annual report year: 2013 › Research › peer-review

Diffusion and electromigration in clay bricks influenced by differences in the pore system resulting from firing
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Chloride Ingress into Concrete under Water Pressure
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Hysteresis and Temperature Dependency of Moisture Sorption – New Measurements
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Valuation of the 12 year old Concrete in the Ulkebugt Bridge, Sisimiut, Greenland
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Bjergarter
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2008 › Education › peer-review

Determination of resistance to salt crystallization on natural stone measured with ultrasonic wave
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review
Hygrothermal Properties and Performance of Sea Grass Insulation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Non-isothermal Moisture Transport Through Insulation Materials
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

The influence of surface treatment on mass transfer between air and building material
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Improved suction technique for the characterization of construction materials
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Improved Suction Technique for the Characterization of Construction Materials
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Moisture buffer value: A comprehensive analysis of essential parameters
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Effect of method, step size and drying temperature on sorption isotherms
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Etching and image analysis of the microstructure in marble
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

MODELING THE INITIAL PACKING OF CEMENT-BASED MATERIALS
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research

Moisture Buffering of Building Materials
Research output: Book/Report › Report – Annual report year: 2005 › Research › peer-review

Moisture Buffer Value of Materials in Buildings
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Moisture penetration in a chair seat as a response to daily RH variations in the indoor air: Climatic chamber measurements and calculations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Moisture Transport in Wood: An Experimental and Numerical Study
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review
NORDTEST Project on Moisture Buffer Value of Materials
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Response of insulation materials on non-isothermal moisture transport: Final results
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

The influence of moisture content on the water vapour resistance of surface coated spruce
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Fugtøkonomiske undersøgelser af papiruld med en ny formulering af imprægneringen
Research output: Book/Report › Report – Annual report year: 2004 › Research

Fugtøkonomiske undersøgelser på dansk hørmåtte
Research output: Book/Report › Report – Annual report year: 2004 › Research

Modeling the packing of cement-based materials
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Moisture buffer capacity of different insulation materials
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Assessment of the Durability of Marble Cladding by Laboratory Exposure compared to Natural Exposure
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Assessment of the Durability of Marble Cladding by Laboratory Exposure compared to Natural Exposure
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2003 › Research

Comparison of Experimental Methods for the Measurement of Non-Isothermal Moisture Transport
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Fugtfordeling i absorberende isoleringsmaterialer: Moisture distribution in absorbent insulation
Research output: Book/Report › Report – Annual report year: 2003 › Research › peer-review

Fugtfordeling i absorberende isoleringsmaterialer: Moisture distribution in absorbent insulation
Research output: Book/Report › Report – Annual report year: 2003 › Research › peer-review

Isoteric vapor pressure: Temperature data for water sorption in hardened cement paste: enthalpy, entropy and sorption isotherms at different temperatures
Research output: Book/Report › Report – Annual report year: 2003 › Research › peer-review
Moisture movements in render on brick wall
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Drying of Concrete
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research

Knud Højgaard, Visiting Professor Chair on Concrete Technology at DTU
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research

Natural stone panels for building facades. Loss of strength caused by temperature cycles
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Natural stone panels for building facades. Loss of strength caused by temperature cycles
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2002 › Research

Non-isothermal water vapour transmission through porous insulation. Part 1
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Non-isothermal water vapour transmission through porous insulation. Part 2
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Unfired clay bricks – moisture properties and compressive strength
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Unfired clay bricks – retention curves and liquid diffusivities
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Unfired clay bricks – retention curves and liquid diffusivities
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2002 › Research

Drying/hydration in cement pastes during curing
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Durability of fibre reinforced concrete structures exposed to mechanical and environmental load
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Influence of Cement Particle-Size Distribution on Early Age Autogenous Strains and Stresses in Cement-Based Materials
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Intercomparison on measurement of water vapour permeability
Research output: Book/Report › Report – Annual report year: 2001 › Research

Shrinkage-reducing admixtures and early-age desiccation in cement pastes and mortars
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review
Udstyr til undersøgelse af fugtfordeling i absorberende isoleringsmaterialer
Research output: Book/Report › Report – Annual report year: 2001 › Research › peer-review

Preliminary observations of water movement in cement pastes during curing using X-ray absorption
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Concrete, hardened: Self desiccation
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review

Dual-energy X-ray absorptiometry for the simultaneous determination of Density and Moisture Content In Porous Structural Materials
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

Durability of cracked fibre reinforced concrete structures exposed to chlorides
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

Durability of fibre reinforced concrete structures exposed to combined mechanical and environmental load
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

Hovedrapport. Varme- og fugttekniske undersøgelser af alternative isoleringsmaterialer
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review

Kapillarsugning: Del af Varme- og fugttekniske undersøgelser af alternative isoleringsmaterialer
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review

Measured moisture properties for alternative insulation products
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research

Sorptionisotermer: Del af Varme- og fugttekniske undersøgelser af alternative isoleringsmaterialer
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review

Vanddamppermeabilitet (kopforsøg): Del af Varme- og fugttekniske undersøgelser af alternative isoleringsmaterialer
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review

Betons selvudtørring. Rapportering af Fase I fra NORDTEST projekt nr. 1325-97
Research output: Book/Report › Report – Annual report year: 1998 › Research › peer-review

Drying of concrete. Part I: A comparison of instruments for measuring the relative humidity in concrete structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research

Drying of concrete. Part II: The drying time of concrete structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research

"Sorpvej" for Sorption Curves - A Windows Program for collecting Weighing Data and determining Equilibrium State
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research › peer-review
Vejledning til brugen af Brüel & Kjær Multichannel Signal Analyzer type 3550 ... med en kort introduktion til brugen af Brüel & Kjær DeltaTron-accelerometre
Research output: Book/Report › Report – Annual report year: 1998 › Research › peer-review

Equipment for measuring autogenous RH-change and autogenous deformation in cement paste and concrete
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1997 › Research › peer-review

Porosity and liquid absorption of cement paste
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Durability of fibre reinforced concrete structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research

Experimental drying shrinkage of hardened cement pastes as a function of relative humidity
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research

Microstructure in hardened cement pastes measured by mercury intrusion porosimetry and low temperature microcalorimetry
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research

Microstructure in hardened cement pastes measured by mercury intrusion porosimetry and low temperature microcalorimetry
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research

Vejledning til Windows-programmet SorpVej til sorptionsmåling
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research

Combined heat and moisture transfer in building constructions

Fugtfysik: Kopmetoden - kritisk analyse og metodeudvikling

Sorption isotherms: A catalogue

Projects:

Determination and assessment of critical material parameters for severely cracked alkali-silica reaction damaged concrete structures' function and load bearing capacity
Project: PhD

Modellering af revedannelse i træ under hensyntagen til viskoelasticitet og fugtdynamik
Project: PhD
Overfladens betydning for varme- og fugtforhold i bygningers klimaskærm og de drift- og vedligeholdelsesmæssige konsekvenser heraf
Project: PhD

Vandabsorption i træ- og plantefibre
Project: PhD

Egenspændinger i hærdnende beton
Project: PhD

De lokale udeklimaparameters betydning for varme- og fugttransport ved overfladen af klimaskærmslpmstriltioner
Project: PhD

Holdbarhed og Materialer for perle-kæde Broer
Project: PhD

Elektrokemisk sanering af kalkmalerier
Project: PhD

Modellering af mekaniske og fysisk-kemiske egenskaber af plantefibre - kompositmaterialer med forbedrede egenskaber
Project: PhD

The role of absorbent building materials in moderating changes of relative humidity
Project: PhD

Eksperimental og analytisk fugtdynamik i sammensatte bygningskonstruktioner
Project: PhD

Alkali-silica reactions in reinforced concrete structures
Project: PhD

Design af cementbaserede materialer med given mikrostruktur
Project: PhD

The role of absorbent building materials in moderating changes of relative humidity
Project: Research

X-ray measurements on wood - spectra measurements
Project: Research

Heat and moisture characteristics of alternative thermal insulation materials.
Project: Research

Concrete, hardened: Self desiccation
Project: Research

Design Methods for Fibre Reinforced Concrete
Project: Research

Fugttekniske undersøgelser på dansk hørmåtte
Project: Research
Durability of Fibre Reinforced Concrete Structures (Part of Design Methods for Fibre Reinforced Concrete)
Project: Research

FUGTTEKNISKE UNDERØGELSER AF PAPIRULD MED EN NY FORMULERING AF IMPRÆGNERINGEN
Project: Research

Ringprøve/samkalibrering af vanddamppermeabilitetsmålinger iht. EN-ISO 12572
Project: Research

Dynamic effects in porous media flow in the built environment
Project: Research

Visiting Professor Chair on Concrete Technology
Project: Research

Klimaforandringer og Innovation i Byggeriet - region Sjælland
Project: Research

Fugtfordeling i absorberende isoleringsmaterialer : Moisture distribution in absorbent insulation
Project: Research

Måling af Z-værdier for Hygrometre og ISOVER KM Duplex
Project: Research

Måling af Z-værdier efter kopmetoden for membranen ISOVER Vario KM Duplex
Project: Research