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Profile

Methods for integrated design of sustainable buildings.
Methods to calculate energy consumption and indoor environment for whole buildings and building components.
Especially interested in detailed modeling of ventilation systems.

Journal articles

Barriers and challenges of the recommendation list of measures under the EPBD scheme: A critical review

Gonzalez Caceres, A. A., Lassen, A. K. & Nielsen, T. R., 2020, In: Energy and Buildings. 223, 17 p., 110065.

Comparing predictions by existing explicit emission models to real world observations of formaldehyde emissions from solid materials

Johnston, C. J., Nielsen, T. R. & Toftum, J., 2020, In: Building Simulation. 13, p. 185–195

Effect of formaldehyde on ventilation rate and energy demand in Danish homes: Development of emission models and building performance simulation

Johnston, C. J., Andersen, R. K., Toftum, J. & Nielsen, T. R., 2020, In: Building Simulation. 13, p. 197–212

Energy flexibility potential of a small district connected to a district heating system

Luc, K. M., Li, R., Xu, L., Nielsen, T. R. & Hensen, J. L. M., 2020, In: Energy and Buildings. 225, 14 p., 110074.

Building energy optimization in the early design stages: A simplified method

Negendahl, K. & Nielsen, T. R., 2015, In: Energy and Buildings. 105, p. 88-89

Indoor environment in bedrooms in 79 Greenlandic households

Kotol, M., Rode, C., Clausen, G. & Nielsen, T. R., 2014, In: Building and Environment. 81, p. 29-36 8 p.

Simulation of annual electric lighting demand using various occupancy profiles

Iversen, A., Andersen, P. H. D., Svendsen, S. & Nielsen, T. R., 2013, In: Lighting Research and Technology. 45, 5, p. 538-549

The effect of different weather data sets and their resolution on climate-based daylight modelling

Iversen, A., Svendsen, S. & Nielsen, T. R., 2013, In: Lighting Research and Technology. 45, 3, p. 305-316

Illuminance Level in the Urban Fabric and in the Room

Iversen, A., Nielsen, T. R. & Svendsen, S., 2011, In: Indoor and Built Environment. 20, 4, p. 456-463

System Design for Demand Controlled Ventilation in Multi-Family Dwellings

Mortensen, D. K. & Nielsen, T. R., 2011, In: International Journal of Ventilation. 10, 3, p. 205-216

Energy efficient demand controlled ventilation in single family houses

Nielsen, T. R. & Drivsholm, C., 2010, In: Energy and Buildings. 42, 11, p. 1995-1998

Dynamic model of counter flow air to air heat exchanger for comfort ventilation with condensation and frost formation
Nielsen, T. R., Rose, J. & Kragh, J., 2009, In: Applied Thermal Engineering. 29, 2-3, p. 462-468

Quasi-steady-state model of a counter flow air-to-air heat exchanger with phase change
Rose, J., Nielsen, T. R., Kragh, J. & Svendsen, S., 2008, In: Applied Energy. 85, 5, p. 312-325

Simple tool to evaluate the impact of daylight on building energy consumption
Hviid, C. A., Nielsen, T. R. & Svendsen, S., 2008, In: Solar Energy. 82, 9, p. 787-798

Måling af bygningers lufttæthed
Nielsen, T. R. & Tommerup, H. M., 2007, In: H V A C Magasinet. 10, p. 32-36

New counter flow heat exchanger designed for ventilation systems in cold climates
Kragh, J., Rose, J., Nielsen, T. R. & Svendsen, S., 2007, In: Energy and Buildings. 39, 11, p. 1151-1158

Prototypeløsninger på ventilationsaggregater
Nielsen, T. R. & Drivsholm, C., 2007, In: H V A C Magasinet. 5, p. 36-38

The International Building Physics Toolbox in Simulink
Sasic Kalagasidis, A., Weitzmann, P., Rode, C., Nielsen, T. R., Peuhkuri, R. H. & Hagentoft, C-E., 2007, In: Energy and Buildings. 39, p. 665-674

Simple tool to evaluate energy demand and indoor environment in the early stages of building design
Nielsen, T. R., 2005, In: Solar Energy. 78, 1, p. 73-83

Mekanisk ventilation kan give god energiøkonomi
Drivsholm, C., Olsen, H., Christiansen, J., Nielsen, T. R., Svendsen, S. & Jensen, J. S., 2003, In: VVS. 14, p. 26-34

Life cycle cost optimization of buildings with regard to energy use, thermal indoor environment and daylight
Nielsen, T. R. & Svendsen, S., 2002, In: International Journal of Low Energy and Sustainable Buildings. 2, p. 1-16

Conference papers

Potential of solar shading solutions for reducing overheating while maintaining acceptable levels of daylight in a refurbished Danish apartment building from the period 1950-1970
Zukowska-Tejsen, D., Kolarik, J. & Nielsen, T. R., 2021. 4 p.

Is the tailor recommendation useful? Policy suggestions to upgrade the EPC recommendation report
Gonzalez-Caceres, A. & Rammer Nielsen, T., 2020, In: I O P Conference Series: Earth and Environmental Science. 410, 10 p., 012080.

Solar control solutions for reducing overheating risks in retrofitted Danish apartment buildings from the period 1850-1900 – A simulation-based study
Zukowska-Tejsen, D., Ananida, M., Kolarik, J., Sarey Khanie, M. & Nielsen, T. R., 2019, In: E3S Web of Conferences. 111, 8 p., 03051.

Potential of mechanical ventilation for reducing overheating risks in retrofitted Danish apartment buildings from the period 1850-1890 – A simulation-based study
Zukowska-Tejsen, D., Kolarik, J., Ananida, M., Sarey Khanie, M. & Nielsen, T. R., 2018. 10 p.

An Evaluation Method for Façade Renovation Strategies in Residential Buildings Using Gaze Responsive Visual Comfort Assessments

Sarey Khanie, M., Šlipek, M., Zukowska-Tejsen, D., Kolarik, J. & Nielsen, T. R., 2017. 5 p.

Visual Comfort Evaluation in Residential Buildings: a Simulation-Based Study

Šlipek, M., Sarey Khanie, M., Zukowska-Tejsen, D., Kolarik, J. & Nielsen, T. R., 2017. 5 p.

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Obstacles and New Opportunities for Integrated design

Bjerregaard Jensen, L. & Nielsen, T. R., 2011, *Conference proceedings of 21st CIRP Design Conference: Interdisciplinary Design*. p. 32-36

Internal Insulation of Masonry Walls with Wooden Floor Beams in Northern Humid Climate

Morelli, M., Scheffler, G. A., Nielsen, T. R. & Svendsen, S., 2010, *Proceedings at Thermal Performance of the Exterior Envelopes of Whole Buildings XI*. p. 89

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Passive Houses for Arctic. Measures and Alternatives

Vladyková, P., Rode, C., Nielsen, T. R. & Pedersen, S., 2009, *13th International Passive House Conference 2009*.

Rational use of supply air in residential buildings

Mortensen, D. K., Nielsen, T. R., Svendsen, S. & Christoffersen, L. D., 2009, *Healthy Buildings (usb stick)*.

Simulated influence of the surrounding buildings on the daylight availability in the master plan and on the working plane

Iversen, A., Wille, L. F., Nielsen, T. R. & Svendsen, S., 2009, *Lux Europe 2009*.

Comparison of a Constant Air Volume (CAV) and a Demand Controlled Ventilation (DCV) System in a Residential Building

Mortensen, D. K., Nielsen, T. R. & Topp, C., 2008, *Proceedings of the 8th Symposium on Building Physics in the Nordic Countries*. Technical University of Denmark, Department of Civil Engineering, Vol. 1. p. 191-197

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Mortensen, D. K., Nielsen, T. R. & Topp, C., 2008, *Indoor Air 2008 Conference Proceedings*. Technical University of Denmark

Demand controlled ventilation in a bathroom

Mortensen, D. K., Nielsen, T. R. & Topp, C., 2008, *Proceedings of the 29th AIVC conference in 2008: Advanced building ventilation and environmental technology for addressing climate change issues*. Vol. 2. p. 237-242

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Integrated design and Passive Houses for Arctic Climates

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Occupants' satisfaction with the visual environment in a single office with individual lighting and solar shading control
Iversen, A., Nielsen, T. R. & Svendsen, S., 2008, *Indoor Air 2008 Proceedings*. p. 475

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Vladyková, P., Rode, C., Nielsen, T. R. & Pedersen, S., 2008, *Passivhus Norden 2008*. Trondheim, Norway: SINTEF

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Calculation of daylight distribution and utilization in rooms with solar shadings and light redirecting devices

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Nielsen, T. R. & Svendsen, S., 2005, *Proceedings of the 7th Symposium on Building Physics in the Nordic Countries*. Reykjavik, Iceland: The Icelandic Building Research Institute, Vol. Volume 2.

Presentation of the International Building Physics Toolbox for Simulink

Weitzmann, P., Sasic Kalagasidis, A., Nielsen, T. R., Peuhkuri, R. H. & Hagentoft, C-E., 2003, *Proceedings of the Eighth IBPSA Conference and Exhibition*. IBPSA, p. 1369-1376

Performance optimization of buildings

Nielsen, T. R. & Svendsen, S., 2002, *Proceedings of the 6th Symposium on Building Physics in the Nordic Countries*. Norwegian University of Science and Technology, p. 563-570

Optimal design of building envelopes

Rudbeck, C. C., Nielsen, T. R. & Svendsen, S., 2001, *ASHRAE Buildings VIII*. 1791 Tullie Circle, NE, Atlanta, GA 30329 U.S.A.: American Society of Heating, Refrigerating and Air-Conditioning Engineers

Other publications

Smarte Energisystemer er vejen frem: DTU Sektorudviklingsrapport

Nielsen, T. R., Kindler, E., Madsen, H., Christiansen, L. E., Riis, M. B., Frost, F., Bindner, H. W., Østergaard, J., Pinson, P., Bjørk, R., Hendriksen, P. V., Dittmann, L., Vesborg, P. C. K., Jacobsen, H. K., Skytte, K., Elmegaard, B., Sørensen, P. E., Mackenzie, G. A., Hansen, L. M., Kejlberg, J. & 5 others, Hansen, L. F., Driscoll, P., Jørgensen, U. H., Morthorst, P. E. & Odgaard, M. H., 2020, Technical University of Denmark. 100 p.

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Reduktion af risiko for overtemperatur i etageboliger i forbindelse med facaderenovering: Afsluttende rapport

Kolarik, J., Zukowska-Tejsen, D., Sarey Khanie, M. & Nielsen, T. R., 2019, Technical University of Denmark, Department of Civil Engineering. 26 p.

Nye typer bygningsintegrerede ventilationsløsninger med flere funktioner

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Behovstyret ventilation til enfamiliehuse

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Udvikling af energioekonomisk ventilationsløsning med varmegenvinding til boliger

Drivsholm, C., Olsen, H., Larsen, C. G., Jensen, J. S., Nielsen, T. R., Kragh, J. & Svendsen, S., 2005, Danmarks Tekniske Universitet: DTU Byg, Danmarks Tekniske Universitet. 67 p. (B Y G D T U. Rapport; No. R-118).

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Reimann, G. P., Tommerup, H. M., Laustsen, J. B., Kragh, J., Rose, J., Weitzmann, P., Nielsen, T. R. & Svendsen, S., 2004, DTU Byg, Danmarks Tekniske Universitet. (Byg Rapport; No. R-088).

Optimization of buildings with respect to energy and indoor environment

Nielsen, T. R., Jan 2003, Kgs. Lyngby, Denmark: Technical University of Denmark. 124 p. (Byg Rapport; No. R-036).

A simple energy rating for solar shading devices

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Harmonisering af grundlaget for beregning af energitilskud fra vinduer

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Udvikling af et energieffektivt straightner ventilationsaggregat med indbygget chopper varmeveksler

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Nielsen, T. R., Peuhkuri, R. H., Weitzmann, P. & Gudum, C., 2002, Department of Civil Engineering, Technical University of Denmark.

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Modelling Building Physics in Simulink: Working draft

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Detaljerede metoder til bestemmelse af energimærkningsdata: Ruder og vinduers energimæssige egenskaber. Kompendium 3

Mogensen, M. M., Nielsen, T. R., Svendsen, S. & Duer, K., 1999, 126 p.

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Compact seasonal PCM heat storage for solar heating systems

Dannemand, M., Furbo, S., Fan, J., Nielsen, T. R., Schranzhofer, H. & Shah, L. J.
Institut, samfinansiering
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Energireovering af bygninger til lavenerginiveau

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Information on energy performance of glazings and windows

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Institut, samfinansiering

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Institut, samfinansiering

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ErhvervsPhD-ordningen VTU

01/03/2006 → 29/09/2010

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Self-regulating integrated ceiling solutions for heating, cooling, ventilation and acoustics in buildings based on renewable energy sources

Krusaa, M. R., Hviid, C. A., Kolarik, J., Nielsen, T. R., Jensen, R. L., Kosonen, R. & Søndergård, E.
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Samarbejdsaftaler - Statslige danske

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