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The adjacent walls effects in simplified thermal model of buildings

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Abstract

The thermal network method is a reliable approach to study the thermal performance of buildings. It is able to simulate the i temperature, heating and cooling loads by means of a set of ordinary differential equations. In this work, a 4R3C thermal ne has been proposed to study a detached building. Combinations of thermal networks are addressed in order to consider the error adjacent walls in other typologies (teemi-attached and terraced). Corresponding models, generated by the TRNSYS and and identified parameters in the thermal networks. At the end, the accuracy of the model's candidate the contract of the contract of the model's candidate the contract of the contract of the model's candidate the contract of the cont

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Keywords: Thermal networks, System identification, Adjacent wall, Building's simplified model

Buildings consume around 40% of the total energy in Europe with residential and commercial sectors. They are the fastest growing sector of energy usage: energy consumption in the building sector is even more than in transport and industrial sectors [1]. This has raised interest to study new fields in the energy sector for buildings, such as

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