Statistical Process Control Concerning the Glazed Areas Influence on the Energy Efficiency of Buildings

Author(s): Daniel Lepădatu • Irina Bliuc • Baran Irina
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Abstract text:
The aim of this paper is to present a statistical investigation, for analyzing the buildings characteristics from the energy efficiency point of view. The energy efficiency of buildings may be estimated by their capacity to ensure a healthy and comfortable environment, with low energy consumption during the whole year. The glazed areas have a decisive role in the building energy efficiency having in view the complex functions that they play in the system. A parametric study, based on the method of factorial plan of experience with two levels, allows us to emphasize the measure in which the geometric and energetic characteristics of glazed areas influence the energy efficiency, estimated by the yearly energy needs, to ensure a comfortable and healthy environment.
Key Words:
Design of Experiments; Energy Efficiency of Building; Response Surface Methodology.

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Author(s) Information

Daniel Lepădatu
Affiliation: „Gheorghe Asachi" Technical University, Jassy, Department of Civil and Industrial Engineering.
Email: daniel.lepadatu@gmail.com
Irina Bliuc
Affiliation: „Gheorghe Asachi" Technical University, Jassy, Department of Civil and Industrial Engineering.
Email: -
Baran Irina
Affiliation: „Gheorghe Asachi" Technical University, Jassy, Department of Architecture.
Email: -

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