U-value calculator User's guide

ABEE1025 UNNC

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1. Environment dependencies

The software requires users to install python 3.11.1 in advance and run it in Windows system. After the system environment is ready, download and double-click the main program 'U-value calculator' to run the software.

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Python 3.11 (64-bit)

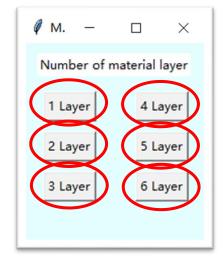
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2. Interface functionality

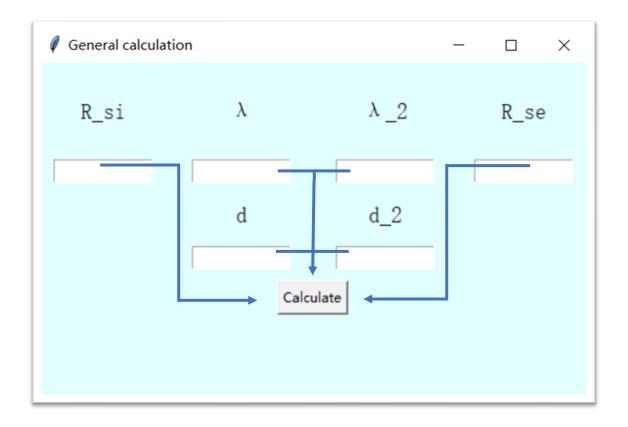
The software contains three interactive elements, which are

buttons, entry boxes, and window maximization/minimization and closing.

Users can click the button to realize the corresponding function. The Button appearance is shown in the right figure.



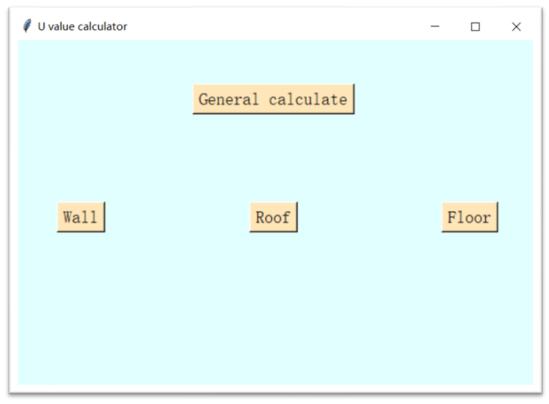
Similarly, users could click the entry box to type in the material's thermal conductivity, thickness and so on.



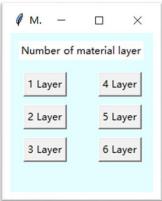
3. OPERATING INSTRUCTION

- 1.Download the 'U-value calculator.pyw' from GitHub.
- 2.Double click the main file to run the software.
- 3. Then choose the building element (only General calculate part is available now).





4. Then choose the number of the element's material layer.



5. Then type in the material's thermal conductivity, thickness, internal surface heat transfer resistance and external surface heat transfer resistance.

6. Finally, click 'calculate' button to get the final answer.

