ReadMe - Instructions for Core Loss Inference

This zip file contains the necessary code and files for performing core loss inference using the Model\_Inference.py. Follow the instructions below to execute the script and perform the inference.

1. Put the original data file in the correct folder:

- Put the original data file in the “\Model\”+<material name> folder as the following example:

\Model\Material A\B\_Field.csv,

\Model\Material A\Frequency.csv,

\Model\Material A\Temperature.csv.

2. Dependencies:

- Make sure you have the required dependencies installed. The script requires Python and the following libraries:

numpy: 1.25.0

torch: 1.12.1+cu113

csv: 1.0

random: 3.10.12

json: 2.0.9

math: 3.10.12

scipy: 1.11.1

3. Execute the Model\_Inference.py:

- Open a terminal or command prompt.

- Navigate to the directory where the Model\_Inference.py is located: \Model\code\

- execute Model\_Inference.py

4. Core Loss Inference:

- Model\_Inference.py will load the dataset and perform core loss inference based on the provided model.

- The results will be stored in \Result.

For any questions or issues, please contact Yinan.22@intl.zju.edu.cn.