Edits to the solver

Sensitivities need not be calculated if finite difference derivatives are being used in the neural network training

Running the framework

Function signature (not a part of the script)

```
NN = FIML(1000, 1000, 1e-3, [7; 7], {@solver1, @solver2}, [0.5, 0.5], 0.0);
function [obj, sens, features, beta] = solver1(NN)
    T inf = 5;
    data = dlmread(strcat("True/solution ", string(T inf), ".txt"));
    [obj, sens, features, beta] = RHT(T inf, 129, 1e-2, 1000, 1e-8, 0, ...
                                      NN, data);
end
function [obj, sens, features, beta] = solver2(NN)
    T inf = 10;
    data = dlmread(strcat("True/solution ", string(T inf), ".txt"));
    [obj, sens, features, beta] = RHT(T inf, 129, 1e-2, 1000, 1e-8, 0, ...
                                      NN, data);
end
```

- If fd_step is 0.0, then the FIML routine assumes the derivatives to be coming from the solver, else it obtains them using finite differences with fd step as the step size
- Several problems can be used at once to obtain an augmentation, the total objective function then being a weighted sum of the individual objective functions of each problem (solver1, solver2, ... in this example with weights 0.5 each)
- nTrainIters specifies the initial training required to create a baseline augmentation NN
- **nFIMLIters** specifies the number of optimization iterations for the FIML procedure
- **stepSize** refers to the optimization step size
- nHiddenLayerNodes specifies the NN hidden layer structure
- Weights are stored in the file "NN weights.txt"

NOTE: The inverse problem here for radiative heat transfer is ill-posed and can lead to augmentations which might not work on all cases

Prediction

