

Optimal Experiment Design for inverse heat conduction problem

The estimation of model unknown parameters through an inverse problem procedure enables an increase in the reliability of the model predictions. Such approach requires defining an experimental campaign to obtain observations of the physical phenomena. However, the accuracy of the estimated parameters strongly depends on the quality of the experimental data. The design of experiments enables the search for the optimal measurement plan that ensures the highest degree of accuracy in parameter estimation. The objective of this class is to introduce some tools for searching the optimal experiment design. It enables answering practical questions such as: what type of measurement techniques to apply? what are the positions and numbers of sensors? What is the starting day and duration of the experimental campaign?

MINICURSO:

13/11 segunda-feira

16/11 quinta-feira

20/11 segunda-feira

23/11 quinta-feira



Julien Berger

Laboratoire des Sciences de l'Ingénieur pour l'Environnement
LaSIE), UMR 7356 CNRS,
La Rochelle Université, CNRS, 17000, La Rochelle, France

13 a 23 de novembro

13:00 às 15:00 horas

Local:

Laboratório de Transmissão e Tecnologia do Calor (LTTC) – Sala I-132,
Centro de Tecnologia

Maiores informações:

Prof. Helcio Orlande (e-mail: helcio@mecanica.coppe.ufrj.br)