

## Heat Transfer and Diffusion Modelling

**Authors :** R. Whalley

**Abstract :** The heat transfer modelling for a diffusion process will be considered. Difficulties in computing the time-distance dynamics of the representation will be addressed. Incomplete and irrational Laplace function will be identified as the computational issue. Alternative approaches to the response evaluation process will be provided. An illustration application problem will be presented. Graphical results confirming the theoretical procedures employed will be provided.

**Keywords :** heat, transfer, diffusion, modelling, computation

**Conference Title :** ICPSE 2015 : International Conference on Process Systems Engineering

**Conference Location :** Singapore, Singapore

**Conference Dates :** July 04-05, 2015