

Symposia Title

Mathematical Modelling and Numerical Simulation of Fluid Flow Problems

Dr. Chandra Shekhar Nishad¹

Department of Science and Mathematics, IIIT Naya Raipur,
Chhattisgarh, INDIA

Dr. Mithilesh K. Chaube²

Department of Science and Mathematics, IIIT Naya Raipur,
Chhattisgarh, INDIA

ABSTRACT

The mathematical modelling of physical problems arising in engineering sciences boils down to differential equations. The differential equations which we can exactly solve are very limited. The large class of differential equations have to be solved using numerical methods. Therefore, the main goal of this Symposium is to attract contributions on mathematical modelling and numerical solution of fluid flow problems.

Keywords: Mathematical Modelling, Newtonian and Non-Newtonian Fluid Flow; Numerical Methods; Approximate Methods; Perturbation Methods.