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Study of aerodynamics and fluid mechanics

Mahesh Bharatadri¹, Lokesh Kumar²

**¹ Professor, Department of Mechanical Engineering,
 Dr. Ambedkar Institute of Technology, Bangalore, India*

**² Department of Mechanical Engineering,
 Dr. Ambedkar Institute of Technology, Bangalore, India
 E-mail: lokesh.sira87@gmail.com*

<https://zenodo.org/deposit/8054577>

**Corresponding author: Lokesh Kumar*

Abstract:

Computational aerodynamics is an increasingly important field in the field of turbomachinery as well as the aerospace industry. In this part, we will highlight the range of complexity that is involved in fluid simulations by providing a few instances of simulations that involve fluids. The application of computational fluid dynamics, sometimes known as CFD, is an essential part of the design process in contemporary manufacturing (CFD). Given this context, we investigate the possible functions and markets for a given entity to a certain part in a period where portable computing is everywhere.

Keywords:

Aerodynamics, Computational Aerodynamics, Computational Fluid Dynamics (CFD), Turbomachinery.