

CFD for Simulating Air Distribution in Buildings: The State of the Art, Challenges, and Opportunities

Qingyan Chen¹

¹School of Mechanical Engineering, Purdue University, West Lafayette, IN 47907, USA

Corresponding email: yanchen@purdue.edu

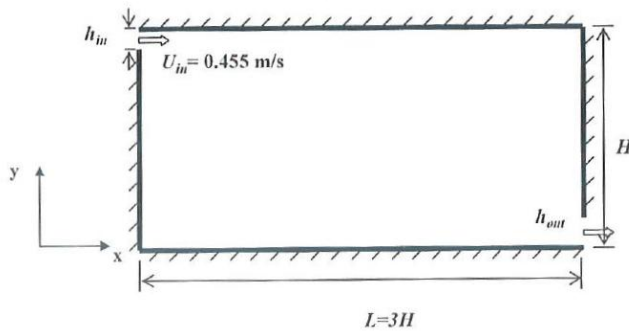


Figure 2. Sketch of the forced convection flow in a modeled room.

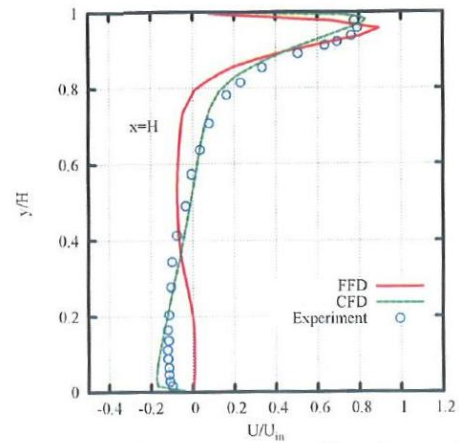


Figure 3. Comparison of horizontal air velocities predicted by FFD and CFD with the experimental data.