

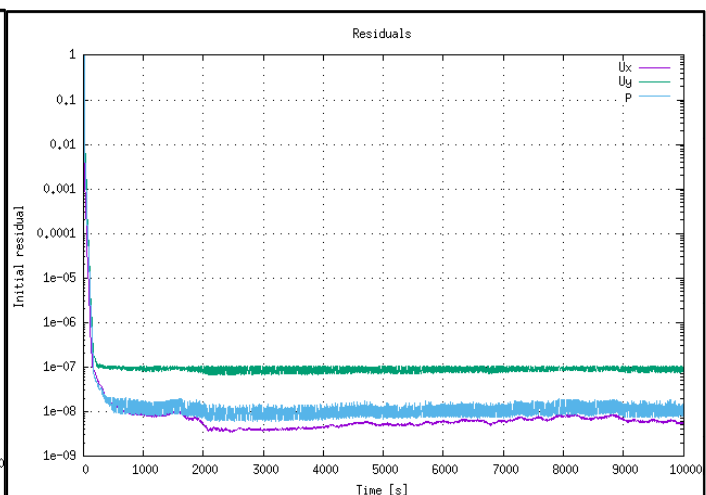
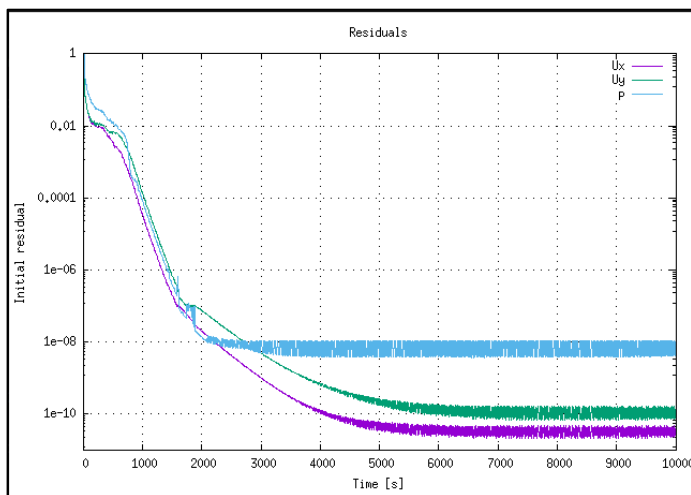
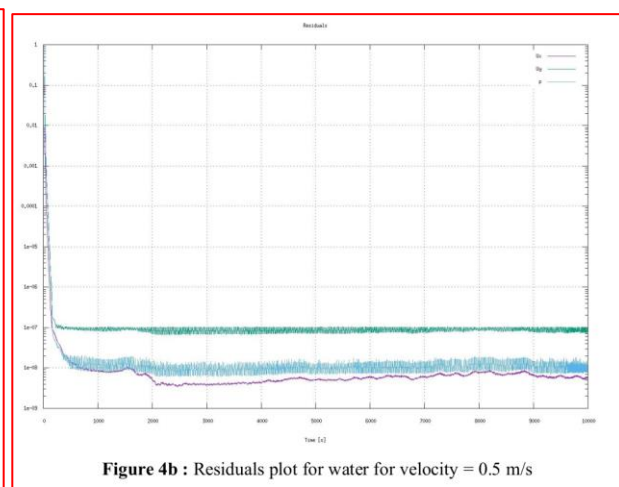
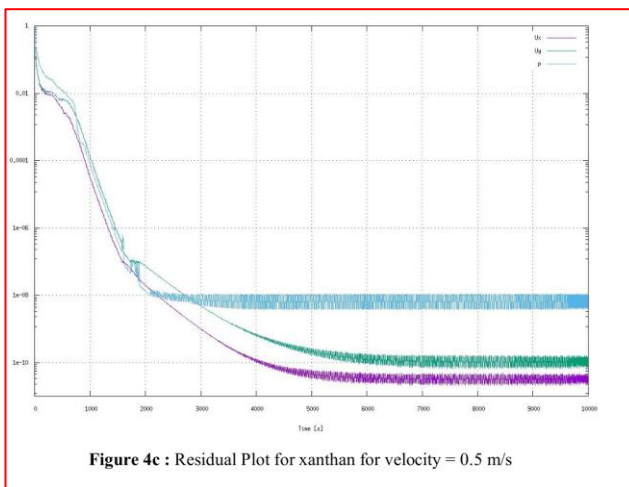
Numerical Simulation of Non-Newtonian Fluids in a Sinusoidal Microchannel

Pranay Kumar Pandey¹

¹Dept. of Aerospace Engineering, Amity University Mumbai, Panvel, Maharashtra 410206

Conclusions

- In this report, comparison is made for the residual plots and as well as contour.
- The case has been updated to the latest version (OF2212).
- For comparison purposes, the plot available in the report of the case already i.e solved previously has been bordered with Red Color with thickness 1. It also has Figure title attached to it.
- From the residuals compared, we infer that the old and new simulations match.



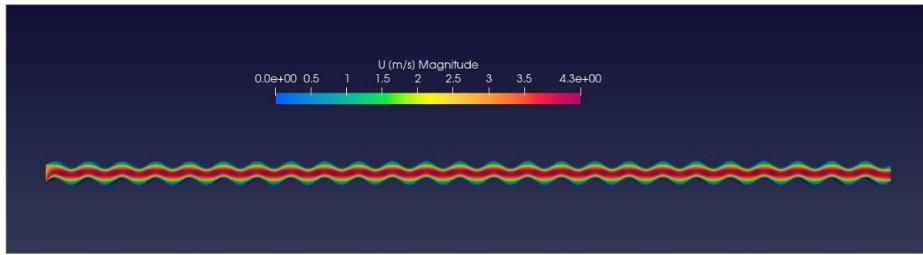


Figure 5c : Velocity (m/s) for crude oil at velocity = 1 m/s

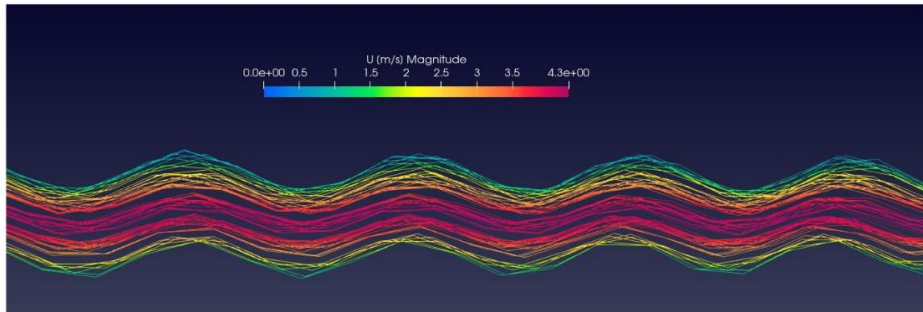
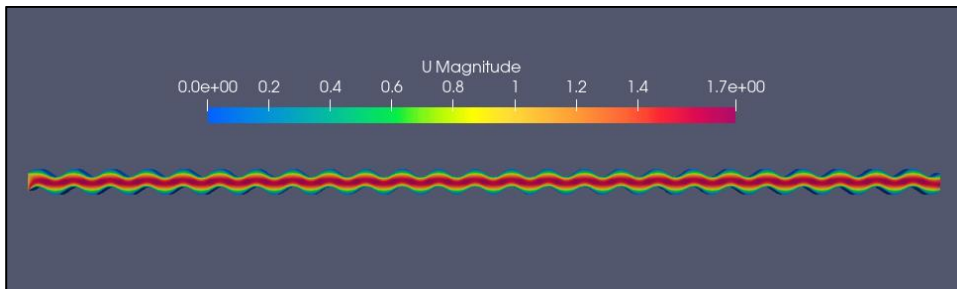
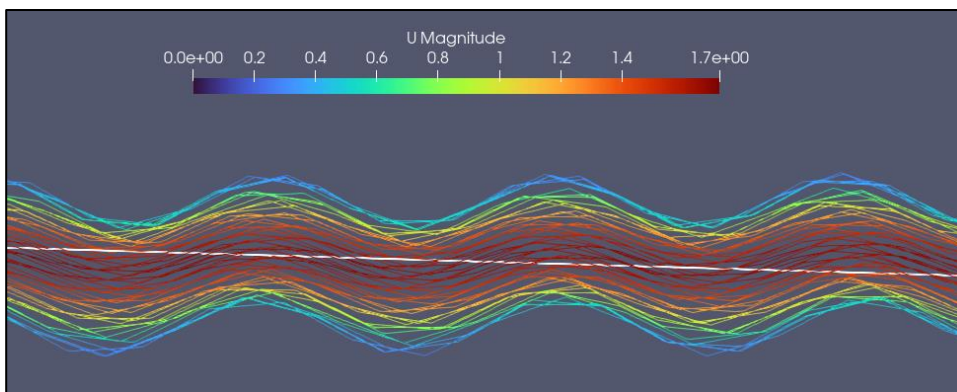


Figure 5d : Velocity streamline for crude oil at velocity = 1 m/s



Velocity at 1 m/s (crude oil)



Velocity Streamline at 1 m/s (crude oil)