

**Abstract:**

In this project of research, we will study differential, partial, linear partial differential equations of the homogeneous and heterogeneous types.

In this type of equation, we will deal with the problem of the boundary value and solve it using the "Adman analytical method" which often gives the exact solution to the equation.

In this type of equation, you can find traffic flow in crowded roads and blood flow in pipes connected to the elastic wall, as well as missile waves, which are special cases of dynamic systems.

In this research we have discussed two chapters which are necessary in the center of our work where in the first

chapter the most important characteristics presented basic concepts in this study.

As for the second chapter, the full picture of this equation has been presented and using the method of solving it is Adman analysis using some models.

Finally, the research included the main sources that were adopted during the work.