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**A STUDY OF APPLICATIONS OF NANOFUIDS TO HUMANKIND**

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**ABSTRACT**

With numerous researches several conveniences of using Nano fluids in different industries, medical sectors and engineering come towards us. Nano fluid is an advanced coolant fluid as its heat transport mechanism can be manipulated up to desired level. In this segment of this thesis, we have tried to discuss briefly about some valuable applications of Nano fluids as a gift of science and technology. Nano fluids work as a coolant in ventilation, air-conditioning, refrigeration, and thermal radiator system of vehicles. Ionic liquids like salt-water, do not acquire considerably rich thermal conductivity in comparison to water. But in addition, with nanoparticles these ionic liquids are more promising fluid for coolant in absorption refrigeration or cooling circuits was revealed by Sen and Paolucci. One of the significant challenges to advance the design of aerodynamic structure of weighty vehicles is the position of large radiator in front of engine to maximize the cooling effect of oncoming air at high velocity. The utilization of Nano fluids as coolant in radiators promotes higher efficiency in heat transport mechanism.