



Design and CFD analysis of submersible pump impeller

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Design and CFD analysis of impeller of mixed flow type pump of V6 type submersible pump | When we deal with any mechanical engineering system, it needs great consumption of electricity and in the era of energy crisis, effective use of energy sources is must. Country like China and India are the biggest users of energy sources and mechanical equipment like pump has very wide range of applications in industry as well as domestically. In order to save energy one of the most preferred ways is to improve performance of the device for the same energy consumption. In this work focus is on the impeller of the mixed flow type submersible pump. In order to improve the efficiency of the pump need to work at the design level and find the parameters that affects the design and performance of the pump. Here the design of impeller of the mixed flow type submersible pump with the best efficiency point is compared with the existing impeller layout and it is found that the inlet and exit angle of blade and reducing number of blade have significant improvement on the performance of the pump. This...



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