DESIGN AND ANALYSIS OF CRANK SHAFT

Crankshaft is large volume production component with a complex geometry in the Internal Combustion (I.C) Engine. Crank shaft is a mechanical part which converts rotational motion into reciprocating motion of piston. Crankshaft is one of the critical components for the effective and precise working of the internal combustion engine, Which undergoes different loads. An attempt is made in this paper to study the Static analysis on a crankshaft from a 4-stroke I.C Engine. The modeling of the crankshaft is created using SOLID WORKS2014 Software. Finite element analysis (FEA) is performed to obtain the variation of stress at critical locations of the crank shaft using the ANSYS software and applying the boundary conditions.