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FINITE ELEMENT ANALYSIS OF PISTON IN ANSYS Lokesh Singh¹, Suneer Singh Rawat², Taufeeque Hasan³, Upendra Kumar⁴ ^{1,2} Department of Mechanical and Automation Engineering, Amity University ³ Department of Mechanical and Automation Engineering, Amity University ⁴ Department of Electronics and Communication Engineering, Amity University Abstract-A piston is a component of reciprocating ...

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Keywords— FEA, ANSYS, Piston crown, Piston skirt, Pro-E, stress concentration, Thermal analysis etc. I. INTRODUCTION A piston is a component of engines. It is the moving component that is contained by a cylinder and is made gas-tight by piston rings. In an engine, its transfer force from

ANSYS. As the piston is a complex structure, SOLID 90 was chosen for the thermal analysis as it is higher order 3-D element type with 20 nodes with Single DOF, temperature at each node. Its equivalent element for structural analysis is SOLID 186. The lower order elements doesn't give proper evaluation as that of

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