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NUMERICAL MODELING OF LAZER WELDING

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ABSTRACT:-Laser welding is used in many applications like electronics, instrumentation, packaging, automobile and medical industries. Here laser welding is carried out on small thickness where the thickness of plates is in microns which need a small heat affected zone. Lasers are well suited for welding with small length scale because they can deliver a controlled amount of energy to very small components with a high degree of precision. Laser welds behave very differently from other welding process due to its small heat affected zone and the interaction with material is in milliseconds. Such short time makes it much more difficult to make physical measurements of the important parameter Temperature. Thus to investigate these parameters at micro level of length and time scale numerical methods are required where the domain is divided into fine grids and considering very small time steps makes it possible to study the behavior of these parameters at small time scales.

Keywords—Ansys, Weld pool, Lazer welding, weld bead.



DESIGN AND MANUFACTURING OF PLASTIC BOTTLES STRIP CUT MACHINE

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ABSTRACT:-Nowadays the use of plastic bottle is growing day by day. So after usage the bottles are thrown into the environment by peoples. So as we know that plastic is not vanishes easily. So by using the strips of plastic drawn from plastic bottles, we can make the raw material of road construction more stronger. So we are going to invent the machine which will make the strips of plastic from waste plastic bottles.

Keywords—Plastic Fibre,