

DESIGN AND STATIC ANALYSIS OF ELECTROMAGNETIC SHOCK ABSORBER USING ELECTROMAGNETIC INDUCTION

ANMOL MAHAJAN & PRATHAM CHHABRA

Department of Mechanical and Automation Engineering, Maharaja Agrasen Institute of Technology,
New Delhi, India

ABSTRACT

Suspension is the main part of the automobile and shocks are used to make the ride more comfortable even on uneven road. This electromagnetic shock have been designed in order to improve the mechanical efficiency as compared to oil shockers and at the same time providing adjustability as per loads and road conditions, the economic consideration of the design & the size of the shocker is most suited to its use not only in auto industry but also in various machines. The designed shocker has been observed be effectively sustainable and reproducible. The modeling part was carried out in ultimate tensile machine for checking and found to have noticeable result according to the design.

KEYWORDS: Capacitor, Permanent Magnet, Electromagnet

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