

ABSTRACT

POWER GENERATION THROUGH SUSPENSION SYSTEM USING RACK AND PINION MECHANISM AND COPPER WINDING

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Energy absorbed by shock absorber is dissipated in terms of heat. Thus in this work attempts have been made to convert dissipated energy in to electrical energy. In this project, design of regenerative suspension system is proposed, for improving the energy harvesting efficiency. Mechanical motion rectifier is used to convert oscillatory vibration into unidirectional rotation of generator. Modal and Vibration analysis is carried out of rack and pinion system to identify displacement and stresses by using software, at various loads. Mode shapes are determined for each natural frequency. Mechanical rack and pinion system is used to generate power through regenerative shock absorber. This system can be used effectively in vehicles for power generation.



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