

Design and Development of Experimental Setup for Two Degrees of Freedom Eccentric Mass Dynamic Vibration Absorber

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Abstract: Design & development of experimental setup was been made or fabricated and was use to cancel out the resonating frequency and to lower the amplitude vibration which is called as dynamic vibration absorber (DVA). In this a system of spring-mass-damper was fabricated as a set up. In this setup, a vibratory model was been developed for the eccentric mass as an rotational unbalance load to develop some vibratory motion for the two degrees of freedom system (2 DOF). In this project, a prototype of vibratory physical setup was developed and compared to experimental findings and measurements of observations using the physical model.

Keywords: Dynamic Vibration Absorber(DVA), 2DOF, Natural Frequency, Resonance.

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