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... Theoretical and experimental modal analysis of a cantilever steel beam with a tip mass. Fadel Letícia F Miguel, Fadel Leandro F Miguel, and Kern C A Thomas. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science 2009 223: 7, 1535-1541 Theoretical and experimental modal analysis of a ... Theoretical and Experimental Modal Analysis of Multiple Flexible Disk-Flexible Shaft System Naim Khader, Professor\*; Ali Atoum, Graduate Student\* and Ahmad Al-Qaisia, Associate Professor+ \*Department of Mechanical Engineering, Jordan University of Science & Theoretical and Experimental Modal Analysis of Multiple ... of modal analysis. So, basically, modal analysis is the study of the natural characteristics of structures. Understanding both the natural frequency and mode shape helps to design my structural system for noise and vibration applications. We use modal analysis to help design all types of structures including automotive structures. Experimental modal analysis is the process to determine the modal parameters in the form of natural frequency, mode shape, and damping. This paper presents a theoretical, experimental, and...

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