

عنوان مقاله:

A comprehensive review on design and analysis of Composite Springs

محل انتشار:

هشتمین کنفرانس بین المللی دانش و فناوری مهندسی برق مکانیک و کامپیوتر ایران (سال: 1401)

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خلاصه مقاله:

This paper provide the information about material selection, design and analysis of springs. Composite leaf springs have become one of the most widely accepted choice in manufacturing in our society today. Few out of the many reasons include high specific strength, a high modulus and resistance to corrosion. Due to this these qualities which are obviously most sought after, the design method and a research of performance have become a focal point. This research paper prepared by us projects a detailed summary of research results gotten over a long period of study concerning the selection of material, the spring body composite leaf springs and the method of which involves the calculation of stiffness and method of optimization. This project will give a short discussion on the results of the performance investigation reported in the modal discussion, damping, dynamic stiffness, and response to low frequency impact, creep behavior, the performance of fatigue and loading performance of composite leaf springs. Lastly, the new patterns in the findings of composite leaf springs are discussed briefly.

کلمات کلیدی:

springs, composite, material selection, design

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