

Leaf springs – Design, calculation and testing requirements

S. Karditsas, G. Savaidis, A. Mihailidis
Aristotle University of Thessaloniki
Thessaloniki, Greece

A. Savaidis
School of Pedagogical and Technological Education
Athens, Greece

R. Fragoudakis
Tufts University
Medford, MA, USA

ABSTRACT

For the design of serial leaf-springs, specific requirements regarding the dimensions of the vehicle configuration and the allowable developed stresses that occur under specific operating loading conditions are taken into account. The allowable stresses are obtained from Wöhler curves determined experimentally and providing the fatigue behaviour of the end product. In the present paper a parabolic 2-leaf-spring for front axles of heavy duty vehicles was used as an example for the design process using the Finite Element Methods simulating the on-vehicle operating conditions. A Wöhler curve was determined after the conduction of 6 cyclic 4-point bending tests and the developed strains were measured during the tests. Finally a Finite Element simulation of the experimental configuration was performed and the calculated stress distribution along the specimens was compared with the stresses developed during the tests.

KEYWORDS

Automotive, leaf springs, design, finite element method, fatigue

INTRODUCTION

For the suspension of carry-load vehicles many types of arrangements may be used depending on the type of the vehicle and the occurring operating loads. One advantageous type of suspension systems is the leaf-springs system, which needs less additional components than other suspension systems, thereby leading to lighter and lower-cost structures. Additionally, the leaf-spring's performance determines both the suspension and the guidance of the vehicle due to the fact that the leaf-spring is connected with both the axle and the steering system.

Leaf Springs Design Calculation And Testing Requirements

VM Jensen



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