DISPLACEMENT NODE DETERMINATION
OF LEAF SPRING USING FINITE ELEMENT METHOD

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Abstrack

In vehicle of trailer have important role. The important role is to guard weight from trailer and things you must carry. If we got effective leaf springs to guard the weight, we must know value of displacement node. Value of displacement node can be sure with finite element method. Sample taken at this final project is leaf spring from trailer. Encumbering which is passed to this leaf spring is 1500 N and 2500 N.

The final project have succeeded calculated value of displacement from 21 node. From knowable the result that distribution assess the displacement node have the same pattern for the burden of 1500 N and 2500 N. Level of middle displacement node dot for 3 coat and 4 coat much the same too, so that can be said that 3 coat effective enough to yield guard the weight. Other result dissimilar got by wide of beam yielding smallest value displacement is 20 cm².

Keyword: leaf spring, displacement node, finite element method