

ABSTRACT

In the present thesis, a generalized formulation has been developed by compiling Burmister layer or granular layer, Kirchhoff plate, and soil layer to analyze a composite pavement structure. The formulation can handle any number of horizontally placed pavement layers made up of bituminous material, soil, concrete layer placed in any order and has been coded into COMPOPAVE by MATLAB programming language. The results from the computer code developed have been validated using standard programs for analysis of bituminous and concrete pavements like FPAVE and KENPAVE. Design lives have been compared for example problems varying order of placement of the composite pavement layers.