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pavement analysis tools. a section for Frequently Asked Questions (FAQ) More recently the Traffic Speed Deflectometer has enabled very cost efficient production of essentially continuous structural data usually from only one wheelpath. The latest TSD design now provides even greater accuracy and both wheelpaths may be tested.

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The design of two-layer roller compacted concrete was carried out by a finite-element program for pavement design and analysis to be ... [Show full abstract] useful for all pavement designers.

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Prof. Rashmi G. Bade, Department of Civil Engineering, Pavement Analysis & Design 8 The pavement thickness is modified for the stiffness factor. Then pavement thickness is given by The relation between pavement layers of thickness  $t_1$  and  $t_2$  and modulus of elasticity  $E_1$  and  $E_2$  is given by

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V-Layer is a viscoelastic multilayered analysis program and was develop to analyze the viscoelastic behavior of pavement. In the V-LAYER program, three analyses—elastic analysis, viscoelastic analysis for a static load, and viscoelastic analysis for a moving load—can be performed on a viscoelastic multilayer pavement structure.

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The resilient moduli of various overlay materials are given in the AUSTROADS Pavement Design Guide, Table 6.4. Local research, has found that these values are realistic design values for thin pavements on soft subgrades but may be somewhat conservative for stiff pavements.

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Dr. Michael Mamlouk Professor ECG 239 (Map) (480) 965-2892 Dr. Mamlouk ' s main area of expertise includes pavement analysis and design, pavement maintenance and rehabilitation, and highway materials. He has served as the P.I. and Co-P.I. of many research projects sponsored by FHWA, NHI, U.S. Army Corps of Engineers, Arizona DOT, and various local agencies.

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The complexity of pavement analysis and design stems from diverse pavement materials, heavy traffic, and changing climate. The reliability of a pavement design depends on the extent of representation of this complexity in the prediction of various forms of distress that limit the effective service life of the pavement.

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Pavement Analysis and Design. Composite Pavements Pavement Analysis and Design 33. Composite Pavements A composite pavement is composed of both HMA and PCC. The use of PCC as a bottom layer and HMA as a top layer results in an ideal pavement with the most desirable characteristics.

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