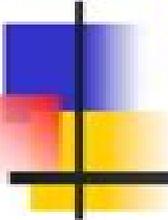


Pavement Workshop - AASHTO 2002 Pavement Design Guide Pavement Modeling



Dr. Geoffrey M. Rowe
Abatech Inc.

Aashto Pavement Design Guide 2002

**United States. Congress. House.
Committee on Appropriations.
Subcommittee on Department of
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Appropriations**

Aashto Pavement Design Guide 2002:

Challenges Facing the Development and Implementation of the 2002 AASHTO Pavement Design Guide Todd V. Scholz, Fred N. Finn, R. Gary Hicks, Transportation Research Board, 1998

Implementation of the 2002 AASHTO Design Guide for Pavement Structures in KDOT Stefan Anton Romanoschi, Taslima Khanum, James N. Mulandi, Sagar Bethu, Kansas. Department of Transportation. Bureau of Materials & Research, Mustaque Hossain, Kansas State University. Civil Engineering Department, K-TRAN (Research program), 2008

The National Cooperative Highway Research Program NCHRP 1 37A project has developed a guide for the design of new and rehabilitated pavement structures based on mechanistic empirical principles. The guide is commonly known as Mechanistic Empirical Pavement Design Guide (MEPDG). The current American Association of State Highway and Transportation Officials (AASHTO) pavement design method is based on the empirical relationships that were developed from the AASHO Road Test done near Ottawa, Illinois, 1958-1960. The new NCHRP design guide based on mechanistic empirical principles combines the advantage of advanced analytical modeling capabilities and field performance observed in the pavements. The transition from empirical to mechanistic empirical methods is challenging as the implementation of the new design guide requires site-specific material, traffic, and climatic inputs for accurate analysis and prediction of pavement response and performance. The objective of this work is to assist the Kansas Department of Transportation in implementation of the new design guide by developing a data base of material inputs required by MEPDG software for asphalt concrete mixes. The comparison of measured and predicted dynamic moduli for the samples compacted at a target air void of 7% showed that the measured values were always higher than the values predicted by the Witczak model when the model used the binder data either derived from the laboratory tests or the values recommended by the NCHRP Guide. The Hirsch model predicted moduli that were even lower than those predicted by the Witczak model. The ratio between the measured and the predicted moduli increased when the air voids of the samples approached 4.0%. For all but two asphalt mixes, the predicted Indirect Tensile Strength (ITS) at 10°C was smaller than the average measured ITS, the error being as much as 50%. The models included in the MEPDG severely overestimate the creep compliance of Kansas Superpave mixes at 10°C. The predicted values are about three times the corresponding measured values.

Final Report, TRC-0302, AASHTO 2002 Pavement Design Guide Design Input Evaluation Study Kevin D. Hall, Steven Beam, Meng Lee, 2006

A study was performed to assess the relative sensitivity of the models used in the Mechanistic Empirical Design Guide to inputs relating to Portland cement concrete (PCC) materials in the analysis of jointed plain concrete pavements (JPCP) and to inputs relating to Hot Mix Asphalt (HMA) materials in the analysis of flexible pavements.

Traffic Load Spectra Development for the 2002 AASHTO Pavement Design Guide M. Shane Buchanan, 2004

Bearing Capacity of Roads, Railways and Airfields, Two Volume Set Erol Tutumluer, Imad L. Al-Qadi, 2009-06-15

Bearing Capacity of Roads, Railways and Airfields focuses on issues pertaining to the bearing capacity of highway and airfield

pavements and railroad track structures and provided a forum to promote efficient design construction and maintenance of the transportation infrastructure The collection of papers from the Eighth International Conference Public Roads ,1999

AASHTO Guide for Design of Pavement Structures, 1993 American Association of State Highway and Transportation Officials,1993 Design related project level pavement management Economic evaluation of alternative pavement design strategies Reliability Pavement design procedures for new construction or reconstruction Design requirements Highway pavement structural design Low volume road design Pavement design procedures for rehabilitation of existing pavements Rehabilitation concepts Guides for field data collection Rehabilitation methods other than overlay Rehabilitation methods with overlays Mechanistic empirical design procedures Introduction to Unmanned Aircraft Systems, Second Edition Douglas M. Marshall,Richard K. Barnhart,Eric Shappee,Michael Thomas Most,2015-10-26 The proliferation of technological capability miniaturization and demand for aerial intelligence is pushing unmanned aerial systems UAS into the realm of a multi billion dollar industry This book surveys the UAS landscape from history to future applications It discusses commercial applications integration into the national airspace system NAS System function operational procedures safety concerns and a host of other relevant topics The book is dynamic and well illustrated with separate sections for terminology and web based resources for further information *Department of Transportation and Related Agencies Appropriations for 1999* United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Transportation and Related Agencies Appropriations,1998 **Sensitivity Analysis of AASHTO's 2002 Flexible and Rigid Pavement Design Methods** Sanjay Shahji,2006 To overcome these limitations AASHTO finally proposed the AASHTO 2002 design guide which is based on mechanistic empirical approach and serves to address the shortcomings and limitations of the earlier empirical design equations developed from the Road Tests *Input Requirements for the AASHTO 2002 Guide for New and Rehabilitated Pavement Structures* ,2002 While the 1986 and 1993 editions of the AASHTO Guide for the Design of Pavement Structures recognized the importance of moving towards mechanistic based design procedures limitations on computer speed modeling techniques and pavement performance data made the implementation of mechanistic based designs difficult at that time The 2002 Design Guide will contain procedures for the design and analysis of all types of new and rehabilitated pavement systems Where feasible the design methodologies for the various pavement types will be integrated such that the design procedure does not inherently favour any particular type of pavement Further the mechanistic empirical design procedure to be included in the 2002 Guide will allow the designer to evaluate the effects of variations in materials on pavement performance This paper discusses the new data input requirements for the design procedures described in the 2002 Guide For the covering abstract of this conference see ITRD number E211217 *Pavement Thickness Design for Local Roads in Iowa* Hosin Lee,Yongjoo Thomas Kim,Jeremy Purvis,2010 The main objectives of this research are to 1 identify the most critical design input parameters 2 determine the

minimum pavement thickness and 3 develop new pavement design and sensitivity analysis PD SA software which can provide the most appropriate design thickness for a broad range of pavement conditions

Pavement Design: Materials, Analysis, and Highways M. Rashad Islam, Rafiqul Tarefder, 2021-02-05 Master the principles analysis and design in pavement engineering This student friendly textbook offers comprehensive coverage of pavement design and highways Written by two seasoned civil engineering educators the book contains precise explanations of traditional and computerized mechanistic design methods along with detailed examples of real world pavement and highway projects Pavement Design Materials Analysis and Highways shows step by step how to apply the latest software based AASHTOWare Pavement Mechanistic Empirical Design method Each design topic is covered in separate modular chapters enabling you to tailor a course of study Fundamentals of Engineering FE sample questions are also provided in each chapter Coverage includes Stress strain in pavement Soils aggregates asphalt and portland cement concrete Traffic analysis for pavement design Distresses and distress prediction models in flexible and rigid pavement Flexible and rigid pavement design by AASHTO 1993 and AASHTOWare Overlay and drainage design Sustainable and rehabilitation pavement design pavement management and recycling Geometric design of highways

Progress Report National Cooperative Highway Research Program, 2001

Independent Review of the "Mechanistic-empirical Pavement Design Guide" and Software, 2006 This digest summarizes key findings from NCHRP Project 1 40A Part I was prepared by Stephen F Brown Scott Wilson Pavement Engineering Ltd Part II was prepared by Michael M Darter Applied Research Associates Inc et al P 1

Guidelines for Implementing NCHRP 1-37A M-E Design Procedures: Literature review, 2009 Highway agencies across the nation are moving towards implementation of the new AASHTO Mechanistic Empirical Pavement Design Guide MEPDG for pavement design The benefits of implementing the MEPDG for routine use in Ohio includes 1 achieving more cost effective and reliable pavement designs 2 lower initial and life cycle costs to the agency and 3 reduced highway user impact due to lane closures for maintenance and rehabilitation of pavements Implementation of the MEPDG is a process that requires time and agency resources staffing training testing facilities including equipment and so on A key requirement is validating the MEPDG s nationally calibrated pavement distress and smoothness prediction models when applied under Ohio conditions and performing local calibration if needed Feasibility of using the MEPDG s national models in Ohio was investigated under this study using data from a limited number of LTPP projects located in Ohio Results based on limited data showed inadequate goodness of fit and significant bias in a number of the MEPDG new HMA pavement and JPCP performance prediction models Limited recalibration of these models showed promising results indicating that a full scale recalibration effort using a more extensive database assembled from projects located throughout the state is feasible

Journal of the Association of Asphalt Paving Technologists, 2006

Guide to Concrete Overlays Dale S. Harrington, 2008

Transportation Research Record, 2004

Long-term Effect of Lime-fly Ash Treated Soils William F. Barstis, 2003

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