

APPENDIX A

Proposed Addendum to AASHTO Publication MEPDG-1: *Mechanistic–Empirical Pavement Design Guide, Interim Edition: A Manual of Practice*

The intent of Appendix A is to provide a summary of the procedure to determine the HMA plastic deformation parameter inputs to the MEPDG Version 9-30A to predict rutting so that it can be used as a reference to the *MEPDG Manual of Practice* that was published in 2008. This assumes that the AASHTO DARWin committee will recommend that one or multiple rut-depth transfer functions be included in the official MEPDG software released or updated with time for the AASHTO members. The procedural manual was prepared as a standalone document so that it can be easily converted to an AASHTO Recommended Practice, if proposed for publication and use by NCHRP.

A.1 Introduction

This manual presents the procedures and guidelines for determining values for the plastic deformation constants of hot-mix asphalt (HMA) mixtures for selected rut-depth transfer functions that are included in the *Mechanistic–Empirical Pavement Design Guide* (MEPDG) software referred to as Version 9-30A. The rut-depth transfer functions included in the MEPDG Version 9-30A software are referred to as the Kaloush, WesTrack, modified Leahy, Verstraeten, and Asphalt Institute transfer functions. All of these transfer functions are discussed in detail in the research report, but the Kaloush, modified Leahy, and WesTrack functions are proposed for use in mixture and structural design.

The guidelines are based on the calibration of the Kaloush, modified Leahy, and WesTrack rut-depth transfer functions using repeated-load plastic deformation tests, measured material properties, and rut-depth time-series data from field and other full-scale pavement sections. Based on the results from the NCHRP Project 9-30A study (comparison of mea-

sured and predicted rut depths), these three transfer functions can be used with similar accuracy and precision.

A.2 Scope of Manual

The manual provides guidelines for using repeated-load tri-axial and constant-height shear tests with different rut-depth transfer functions for evaluating the rutting susceptibility of dense-graded HMA mixtures in accordance with the MEPDG rut-depth computational methodology. This includes analyses of repeated-load plastic deformation tests to determine mixture- and layer-specific inputs to the MEPDG for different transfer functions.

The transfer functions proposed for use and included in the MEPDG Version 9-30A software are listed in the following and are defined in greater detail in Section A.6 of this manual.

1. Kaloush vertical strain transfer function; the transfer function included in the original MEPDG software developed in NCHRP Project 1-37A (Kaloush and Witczak, 2000).
2. WesTrack shear strain and shear stress transfer function (Epps et al., 2000).
3. Modified Leahy vertical strain and deviator stress transfer function—a modified form of the original Leahy or Asphalt Institute transfer function. The modified Leahy transfer function excludes the temperature and asphalt property factors included in the original Leahy (Asphalt Institute) transfer function because dynamic modulus of the mixture is used to compute the HMA mixture response for predicting rut depths.

The original Leahy or Asphalt Institute and Verstraeten transfer functions were included in the NCHRP Project 9-30A study but excluded from the procedural manual. The reasons for excluding both transfer functions are provided in Chapter 3, Data Interpretation and Application, of *NCHRP Report 719*.

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A Comparison of AASHTO Bridge Load Rating Methods Mark Mlynarski, Wagdy G. Wassef, Andrzej S. Nowak, 2011 TRB's National Cooperative Highway Research Program NCHRP Report 700 A Comparison of AASHTO Bridge Load Rating Methods documents an analysis of 1 500 bridges that represent various material types and configurations using AASHTOWare™ Virtis to compare the load factor rating to load and resistance factor rating for both moment and shear induced by design vehicles American Association of State Highway and Transportation Officials AASHTO legal loads and eight additional permit legal vehicles **A Manual for Design of Hot Mix Asphalt with Commentary**, 2011 *Legal Truck Loads and AASHTO Legal Loads for Posting* Bala Sivakumar, 2007 *Code of Federal Regulations*, 2002 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries **Procedures and Guidelines for Rehabilitation of Existing Freeway-arterial Highway Interchanges: Design procedures for rehabilitation of freeway-arterial interchanges**, 1982 *Framework for a National Database System for Maintenance Actions on Highway Bridges* George Hearn, 2010 TRB's National Cooperative Highway Research Program NCHRP Report 668 Framework for a National Database System for Maintenance Actions on Highway Bridges explores a potential framework that provides a uniform format for collecting reporting and storing information on bridge maintenance actions for inclusion in a national bridge maintenance database Appendixes A through E to NCHRP Report 668 provide detailed information on the different aspects of the research Appendix A Information on Bridge Maintenance Programs Appendix B National Bridge Maintenance Database Tables Appendix C List of Element Level Costs of Maintenance Actions Appendix D Examples of National Bridge Maintenance Database Uses Appendix E Other National Bridge Maintenance Database Tables *Manual of Test Procedures for Materials* Illinois. Division of Highways. Bureau of Materials and Physical Research, 2007 Inelastic Rating Procedures for Steel Beam and Girder Bridges Theodore V. Galambos, National Research Council (U.S.). Transportation Research Board, National Cooperative Highway Research Program, 1993 Fatigue Evaluation of Steel Bridges Mark Douglas Bowman, National Cooperative Highway Research Program, 2012 TRB's National Cooperative Highway Research Program NCHRP Report 721 Fatigue Evaluation of Steel Bridges provides proposed revisions to Section 7 Fatigue Evaluation of Steel Bridges of the American Association of State Highway and Transportation Officials Manual for Bridge Evaluation with detailed examples of the application of the proposed revisions Publisher's description **The Code of Federal Regulations of the United States of America**, 2002 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government Highway/transit Proposals United States. Congress. House. Committee on Public Works and Transportation. Subcommittee on Surface Transportation, 1977 **Code of Federal Regulations** United States. Department of Transportation, 2013 Special edition of the Federal register containing a

codification of documents of general applicability and future effect as of April 1 with ancillaries *Calibration of Rutting Models for Structural and Mix Design* Harold L. Von Quintus, 2012 TRB's National Cooperative Highway Research Program NCHRP Report 719 Calibration of Rutting Models for Structural and Mix Design highlights proposed revisions to the Mechanistic Empirical Pavement Design Guide MEPDG and software to incorporate three alternative rut depth prediction models that rely on repeated load triaxial permanent deformation or constant height testing to provide the requisite input data Geotechnical Problem Solving John C. Lommler, 2012-04-02 Devised with a focus on problem solving Geotechnical Problem Solving bridges the gap between geotechnical and soil mechanics material covered in university Civil Engineering courses and the advanced topics required for practicing Civil Structural and Geotechnical engineers By giving newly qualified engineers the information needed to apply their extensive theoretical knowledge and informing more established practitioners of the latest developments this book enables readers to consider how to confidently approach problems having thought through the various options available Where various competing solutions are proposed the author systematically leads through each option weighing up the benefits and drawbacks of each to ensure the reader can approach and solve real world problems in a similar manner The scope of material covered includes a range of geotechnical topics such as soil classification soil stresses and strength and soil self weight settlement Shallow and deep foundations are analyzed including special articles on laterally loaded piles retaining structures including MSE and Tieback walls slope and trench stability for natural cut and fill slopes geotechnical uncertainty and geotechnical LRFD Load and Resistance Factor Design

Evaluating Applications of Field Spectroscopy Devices to Fingerprint Commonly Used Construction Materials Adam Zofka, Maria Chrysochoou, Iliya Yut, and Chad Johnston, This report from the second Strategic Highway Research Program SHRP 2 which is administered by the Transportation Research Board of the National Academies presents evaluations of the capability of portable spectroscopy devices to fingerprint typical construction materials The spectroscopy devices are evaluated in laboratory conditions as well as in the field to verify material testing method combinations found successful The report also documents simple easy to use nondestructive testing procedures for use in the field to ensure quality construction

The Handbook of Highway Engineering T.F. Fwa, 2005-09-28 Modern highway engineering reflects an integrated view of a road system's entire lifecycle including any potential environmental impacts and seeks to develop a sustainable infrastructure through careful planning and active management This trend is not limited to developed nations but is recognized across the globe Edited by renowned authority Current Planning Guidelines and Design Standards Being Used by State and Local Agencies for Bicycle and Pedestrian Facilities, 1992 *Bridge Engineering Handbook* Wai-Fah Chen, Lian Duan, 2014-01-24 The second edition of this bestselling handbook covers virtually all the information an engineer would need to know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format and an abundance of worked out examples give readers

numerous step by step design procedures Extensively updated and featuring several new chapters this volume Construction and Maintenance covers construction inspection bridge management systems health monitoring ratings strengthening and rehabilitation life cycle analysis and much more *Highway Accident Report* United States. National Transportation Safety Board,1983 **Procedures and Guidelines for Rehabilitation of Existing Freeway-arterial Highway Interchanges. Volume II: Design Procedures for Rehabilitation of Freeway-arterial Interchanges. Final Report** Douglas W. Harwood,1982

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