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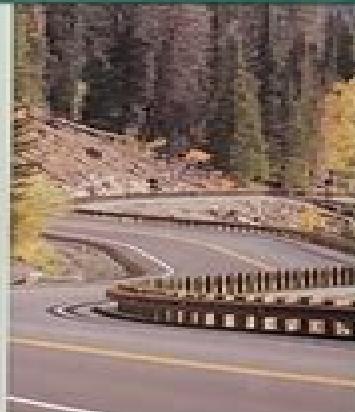
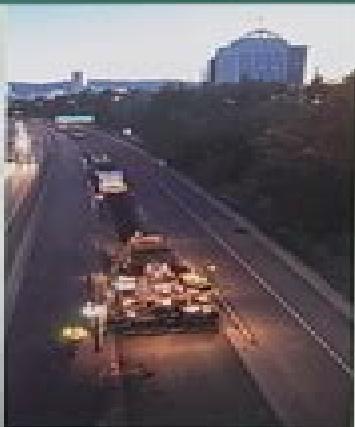
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# Mechanistic-Empirical Pavement Design Guide

*~ A Manual of Practice ~*



August 2015 - Second Edition

American Association of State  
Highway and Transportation Officials  
AASHTO

# Aashto Pavement Design Guide 2015

**Puja Mehta**

## **Aashto Pavement Design Guide 2015:**

### **Proceedings of the 10th International Conference on Maintenance and Rehabilitation of Pavements** Paulo

Pereira,Jorge Pais,2024-07-20 This book gathers the proceedings of the 10th International Conference on Maintenance and Rehabilitation of Pavements MAIREPAV10 held in Guimarães Portugal on July 24 26 2024 The conference series has been established to promote and discuss state of the art design maintenance rehabilitation and management of pavements The respective contributions share the latest insights from research and practice in the maintenance and rehabilitation of pavements and discuss advanced materials technologies and solutions for achieving an even more sustainable and environmentally friendly infrastructure

### **Bituminous Mixtures and Pavements VII** A.F. Nikolaides,E.

Manthos,2019-05-24 Highway engineers are facing the challenge not only to design and construct sustainable and safe pavements properly and economically This implies a thorough understanding of materials behaviour their appropriate use in the continuously changing environment and implementation of constantly improved technologies and methodologies Bituminous Mixtures and Pavements VII contains more than 100 contributions that were presented at the 7th International Conference Bituminous Mixtures and Pavements 7ICONFBMP Thessaloniki Greece 12 14 June 2019 The papers cover a wide range of topics Bituminous binders Aggregates unbound layers and subgrade Bituminous mixtures Hot Warm and Cold Pavements Design Construction Maintenance Sustainability Energy and environment consideration Pavement management Pavement recycling Geosynthetics Pavement assessment surface characteristics and safety Posters Bituminous Mixtures and Pavements VII reflects recent advances in highway materials technology and pavement engineering and will be of interest to academics and professionals interested or involved in these areas

[PPI Transportation Depth Reference Manual for the Civil PE Exam eText - 1 Year](#) Norman Voigt,2018-09-03 Comprehensive Coverage of the PE Civil Exam Transportation Depth Section The Transportation Depth Reference Manual for the PE Civil Exam prepares you for the transportation depth section of the NCEES PE Civil Transportation Exam It provides a concise yet thorough review of the transportation depth section exam topics and associated equations More than 25 end of chapter problems and 45 example problems all with step by step solutions show how to apply concepts and solve exam like problems A thorough index directs you to more than 280 equations 150 tables 140 figures 35 appendices and to the exam adopted codes and standards Topics Covered Geometric Design Pedestrian and Mass Transit Analysis Traffic and Capacity Analysis Traffic Safety Transportation Construction Transportation Planning Referenced Codes and Standards AASHTO Green Book 6th Edition 2011 AASHTO Guide for Design of Pavement Structures 1993 and 1998 supplement AASHTO Guide for the Planning Design and Operation of Pedestrian Facilities 1st Edition 2004 AASHTO Highway Safety Manual 1st Edition 2010 AASHTO Mechanistic Empirical Pavement Design Guide A Manual of Practice 2nd Edition 2015 AASHTO Roadside Design Guide 4th Edition 2011 AI The Asphalt Handbook 7th Edition 2007 FHWA Hydraulic Design of Highway Culverts 3rd Edition 2012 HCM Highway Capacity Manual 6th Edition 2016

MUTCD Manual on Uniform Traffic Control Devices 2009 including revisions in 2012 PCA Design and Control of Concrete Mixtures 16th Edition 2016 PROWAG Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right of Way 2011 and 2013 supplement Key Features A robust index to facilitate quick referencing during the PE Civil Exam Highlights the most useful equations in the exam adopted codes and standards Binding Paperback Publisher PPI A Kaplan Company

**PPI Transportation Depth Practice Exams for the PE Civil Exam, 2nd Edition eText - 1 Year** Dale R.

Gerbetz,2018-08-01 Realistic Practice for the NCEES PE Civil Transportation Exam Transportation Depth Practice Exams for the PE Civil Exam contains two multiple choice exams consistent with the NCEES PE Civil Transportation Exam s format and specifications Like the actual exam the problems require an average of six minutes to solve and can be taken within the same four home time limit as the actual exam to enhance time management skills Comprehensive step by step solutions demonstrate accurate and efficient problem solving approaches Solutions also frequently refer to the codes and references adopted by NCEES to help you determine which resources you ll likely use on exam day Topics Covered Capacity Analysis and Transportation Planning Alternatives Analysis Drainage Geotechnical and Pavement Horizontal Design Intersection Geometry Roadside and Cross Section Design Signal Design Traffic Control Design Traffic Engineering Vertical Design Key Features Consistent with the exam scope and format Learn accurate and efficient problem solving approaches Connect relevant theory to exam like problems Individual answer keys with step by step solutions Exam adopted codes and standards Binding Paperback Publisher PPI A Kaplan Company

**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

Geotechnics for Transportation Infrastructure Ravi Sundaram,Jagdish Telangrao Shahu,Vasant Havanagi,2019-05-30 This book presents selected papers from the International Symposium on Geotechnics for Transportation Infrastructure ISGTI 2018 The research papers cover geotechnical interventions for the diverse fields of policy formulation design implementation operation and management of the different modes of travel namely road air rail and waterways This book will be of interest

to academic and industry researchers working in transportation geotechnics as also to practicing engineers policy makers and civil agencies **Bearing Capacity of Roads, Railways and Airfields** Andreas Loizos,Imad Al-Qadi,Tom Scarpas,2017-07-20 Bearing Capacity of Roads Railways and Airfields includes the contributions to the 10th International Conference on the Bearing Capacity of Roads Railways and Airfields BCRRRA 2017 28 30 June 2017 Athens Greece The papers cover aspects related to materials laboratory testing design construction maintenance and management systems of transport infrastructure and focus on roads railways and airfields Additional aspects that concern new materials and characterization alternative rehabilitation techniques technological advances as well as pavement and railway track substructure sustainability are included The contributions discuss new concepts and innovative solutions and are concentrated but not limited on the following topics Unbound aggregate materials and soil properties Bound materials characteristics mechanical properties and testing Effect of traffic loading In situ measurements techniques and monitoring Structural evaluation Pavement serviceability condition Rehabilitation and maintenance issues Geophysical assessment Stabilization and reinforcement Performance modeling Environmental challenges Life cycle assessment and sustainability Bearing Capacity of Roads Railways and Airfields is essential reading for academics and professionals involved or interested in transport infrastructure systems in particular roads railways and airfields

*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

**Civil Engineering PE All-in-One Exam Guide: Breadth and Depth, Fourth Edition** Indranil Goswami,2020-09-18 The most complete up to date Civil Engineering PE exam guide Fully updated for the latest technical standards and exam content this effective study guide contains all the information you need to pass the challenging Civil Engineering PE exam Written by a registered PE and experienced educator Civil Engineering PE All in One Exam Guide Breadth and Depth Fourth Edition features equations diagrams and study strategies along with nearly 200 accurate practice questions and solutions Beyond exam preparation this comprehensive resource also serves as an essential on the job reference Covers all material on the NCEES PE Civil exam including Reinforced concrete beams slabs and columns Steel beams tension members and compression members Bridge timber and masonry design Soil sampling testing and classification Design loads on buildings and other structures Shallow and deep foundations and retaining walls Seismic topics in geotechnical engineering Water and wastewater treatment Freeways multilane highways and two lane highways Engineering economics project scheduling and statistics *Implementation of the AASHTO Mechanistic-empirical Pavement Design Guide and Software ,2014* Introduction

Mechanistic Empirical Pavement Design Guide and AASHTOWare Pavement ME Design TM Software Overview Survey of Agency Pavement Design Practices Common Elements of Agency Implementation Plans Case Examples of Agency Implementation Conclusions     **Advances in Transportation Geotechnics IV** Erol Tutumluer, Soheil Nazarian, Imad Al-Qadi, Issam I.A. Qamhia, 2021-08-30 This volume presents selected papers presented during the 4th International Conference on Transportation Geotechnics ICTG. The papers address the geotechnical challenges in design, construction, maintenance, monitoring, and upgrading of roads, railways, airfields, and harbor facilities, and other ground transportation infrastructure, with the goal of providing safe, economic, environmental, reliable, and sustainable infrastructures. This volume will be of interest to postgraduate students, academics, researchers, and consultants working in the field of civil and transport infrastructure.     **Flexible Pavement Design Manual for New Construction and Pavement Rehabilitation**, 1990

Research Results Digest, 2015     Development of a Simplified Flexible Pavement Design Protocol for New York State Department of Transportation Based on AASHTO ME Pavement Design Guide Ali Qays Abdullah, 2015 New York State Department of Transportation NYSDOT has used the AASHTO 1993 Design Guide for the design of new flexible pavement structures for more than three decades. The AASHTO 1993 Guide is based on the empirical relationships developed for the data collected in the AASHO Road Test in the early 1960's. A newer pavement design method called the Mechanistic Empirical Pavement Design Guide (MEPDG) was developed by the National Cooperative Highway Research Program to provide a more efficient and accurate design method and based on sound engineering principles. The MEPDG models have been incorporated in the AASHTOWare Pavement ME 2.1 software program that can be purchased from AASHTO. Due to the advanced principles and design capabilities of the AASHTOWare program, NYSDOT decided to implement the MEPDG and calibrate the distress models included in the software for the conditions in the state. The work conducted in this research included the local calibration of the distress models for the North East (NE) region of the United States. Design performance and traffic data collected on Long Term Pavement Performance (LTPP) sites in the NE region of the United States were used to calibrate the distress models. First, the AASHTOWare Pavement ME 2.1 with global calibration factors was used to compare the predicted and measured distresses values that were used for model calibration. The local bias was assessed for all distresses models except for the longitudinal cracking model; it was found that the bias existed for this model even after calibration. The thermal cracking model was not calibrated because of erroneous measured data. The calibration improved the prediction accuracy for the rutting, fatigue cracking, and smoothness prediction models. The AASHTOWare software was used to run design cases for combinations of traffic volume and subgrade soil stiffness  $M_r$  for twenty-four locations in New York State. The runs were performed for a road classified as Principal Arterial Interstate at the 90% design reliability level and 15 years design period. State-wide average traffic volume parameters and axle load spectra were used to define the traffic. The NYSDOT's Comprehensive Pavement Design Manual (CPDM) was initially used to obtain pavement design solutions. The

thicknesses for the select granular subgrade materials and the asphalt layer thicknesses were varied to include several values higher and lower than the thickness recommended by CPDM. The thicknesses of asphalt surface and binder layers were kept constant only the thickness of the asphalt base layer was changed. For each design combination the design case with thinnest asphalt layer for which the predicted distress was less the performance criteria was selected as the design solution. The design solutions for each of the 24 locations were assembled in design tables. The comparison of the design tables showed that some variation in the design thickness for the asphalt layers exists even with thicker asphalt layers being needed for the locations in the Upper part of the New York State. The comparison between the new design tables and the table included in the CPDM proved that the new design tables require thinner asphalt layers at low AADTT and thicker asphalt layers at high AADTT than the corresponding design in the CPDM table. For stiff subgrade soil and low AADTT the design thicknesses are almost the same in the new design tables and in the CPDM table.

### **Adapting the AASHTO**

**Pavement Design Guide to New York State Conditions** Hong-Jer Chen, 1995 *Mechanistic-empirical Pavement Design Guide* American Association of State Highway and Transportation Officials, 2008 *Development of a Simplified Flexible Pavement Design Protocol for New York State Department of Transportation Based on the AASHTO Mechanistic-empirical Pavement Design Guide* Stefan Anton Romanoschi, Ali Q. Abdullah, 2017 The New York State Department of Transportation NYSDOT has used the AASHTO 1993 Design Guide for the design of new flexible pavement structures for more than two decades. The AASHTO 1993 Guide is based on the empirical design equations developed from the data collected in the AASHO Road Test in the early 1960s. A newer pavement design method called the Mechanistic Empirical Pavement Design Guide (MEPDG) was developed by the National Cooperative Highway Research Program (NCHRP) to provide a more efficient and accurate design method that is based on sound engineering principles. The MEPDG models have been incorporated in the AASHTOWare Pavement ME Design 2.1 software program. Due to the advanced principles and design capabilities of the AASHTOWare program, NYSDOT decided to implement the MEPDG and calibrate the distress models included in the software for the conditions in the state. This report summarizes the local calibration of the distress models for the Northeast/NE region of the United States and the development of new design tables for new flexible pavement structures. Design performance and traffic data collected on the Long Term Pavement Performance (LTPP) sites in the NE region of the United States were used to calibrate the distress models. First, the AASHTOWare Pavement ME Design 2.1 with global calibration factors was used to compare the predicted and measured distress values. The local bias was assessed for all distress models except for the longitudinal cracking model; it was found that the bias existed for this model even after calibration. The thermal cracking model was not calibrated because of inaccurate measured data. The calibration improved the prediction capability of the rutting, fatigue cracking, and smoothness prediction models. The calibrated AASHTOWare software was used to run design cases for combinations of traffic volume and subgrade soil stiffness (resilient modulus,  $M_r$ ) for 24 locations in the state of New

York The runs were performed for a road classified as Principal Arterial Interstate 90% design reliability level and 15 and 20 year design periods State wide average traffic volume parameters and axle load spectra were used to define the traffic The configuration specified in the current design table used by NYSDOT which is included in the Comprehensive Pavement Design Manual CPDM was followed for the pavement design solutions The thicknesses for the select granular subgrade materials and the asphalt layer thicknesses were varied to include several values higher and lower than the thickness recommended by the CPDM The thicknesses of asphalt surface and binder layers were kept constant only the thickness of the asphalt base layer was changed For each design combination the design case with the thinnest asphalt layer for which the predicted distress was less than the performance criteria was selected as the design solution The design solutions for each of the 24 locations were assembled in design tables The comparison of the design tables showed that some variation in the design thickness for the asphalt layers exists with thicker asphalt layers being needed for the locations in the upper part of the New York State The comparison between the new design tables and the table included in the CPDM proved that the new design tables require thinner asphalt layers at low Annual Average Daily Truck Traffic AADTT and thicker asphalt layers at high AADTT than the corresponding designs in the CPDM table

**Field Materials Manual ,2016      Highway Design and Operations Standards Affected by Driver Characteristics. Volume II: Final Technical Report** Hugh W.

McGee,1983      **Transportation Research Record ,2004**

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