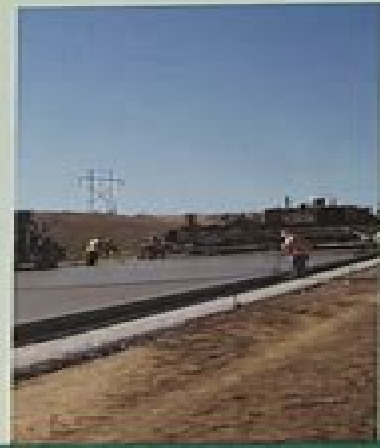
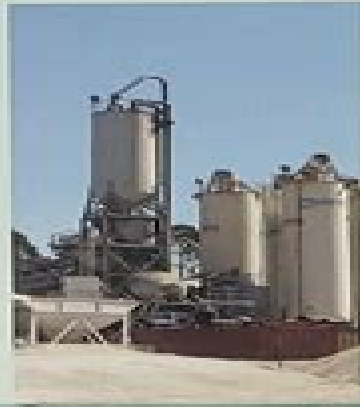




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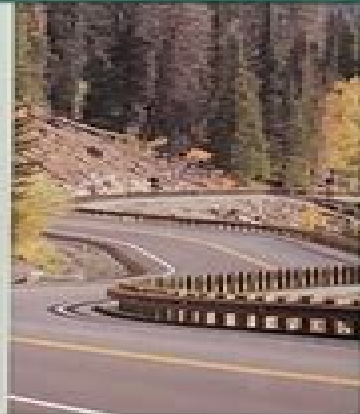
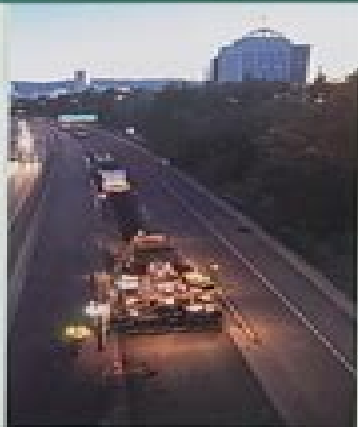
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Aashto Pavement Design Guide 2015

**Ravi Sundaram, Jagdish Telangrao
Shahu, Vasant Havanagi**



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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 Guimar es 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

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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 characteritics 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

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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 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 Mr for twenty four locations in New York State The runs were performed for a road classified as Principal Arterial Interstate 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 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

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