

ARIZONA DEPARTMENT OF TRANSPORTATION



PAVEMENT DESIGN MANUAL

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ROADWAY ENGINEERING GROUP
PAVEMENT DESIGN SECTION

Adot Design Manual Pavement

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Scarpas**



Adot Design Manual Pavement:

Expert Project Recommendation Procedure for ADOT's Pavement Management System Gerardo W. Flintsch, 1997 The Arizona Department of Transportation ADOT uses a network level pavement management system to determine budget requirements for their annual pavement preservation program While this is a valuable tool for preservation programming it does not assist the engineers with the selection of projects and rehabilitation treatments The research documented in this paper was designed to enhance the capability of ADOT's pavement management system to include project selection

ADOT Erosion and Pollution Control Manual, 1995 An Arizona Dept of Transportation manual presents guidelines on developing soil erosion and pollution control on highway construction projects Red Mountain Freeway (Loop 202) Construction and Operation, Between AR 87 (County Club Drive) and US-60 (Superstition Freeway), 1999

Backcalculation of Pavement Moduli, 1991 National Research Council (U.S.). Transportation Research Board, 1991 Proceedings, Workshop in Pavement Rehabilitation, Salt Lake City, Utah, September 17-20, 1984 Glen S. Thurgood, 1985 Contains 47 of the 49 papers presented at the workshop Covers recycling overlay design relief joints load transfer and drainage life cycle costs traffic loading traffic control and maintenance In addition national rehabilitation policies perspectives of industry and ongoing research were discussed *Estimated Highway Planning and Research Program*, 1990

Transportation Demand Management National Research Council (U.S.). Transportation Research Board, 1992 *Asphalt-aggregate Mixture Analysis System*, AAMAS National Research Council (U.S.). Transportation Research Board, 1991 **Specialized Transportation 1991** National Research Council (U.S.). Transportation Research Board, 1991

Transportation Research Record, 1996 *Evaluation of Increased Pavement Loading: Research results and findings*, 1988 e effects of increased truck loads and higher tire pressures on performance of flexible pavements were investigated in this project This Volume 1 report presents the research performed and the useful results obtained Tire pressure studies were performed using both in field measurements and theoretical simulations of the effects of tire pressures on pavements Volume 2 provides documentation for all of the computer programs developed on the project 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 BCRRA 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

Development of Mix Design Procedures for Gap-graded Asphalt-rubber Asphalt Concrete Anne Stonex, 2007 A research project was conducted to identify and document current modifications to ARIZONA 815c 75 blow Marshall method used to develop gap graded asphalt rubber asphalt concrete GG AR AC mix designs and to develop and test improvements to provide a standard mix design method for use by contractors and consultants Based on field performance data provided by the Arizona Department of Transportation ADOT the existing mix design method was successful and should serve as the standard for comparison of proposed improvements Best practices were synthesized to develop proposed improvements Three aggregate sources and two asphalt rubber AR binders were used for initial testing of the existing control mix design method and of the proposed changes Rebound of compacted AR AC specimens was evaluated as were Rice test results at 6% and 7% AR binder by weight of mix The composition of the AR binders rubber gradation and content had more effect on the results than which mix design method was used Additional replicate testing was performed by MACTEC and ADOT to confirm these findings Changes to the AR AC mix design method consist primarily of making and curing Rice specimens in the same manner as Marshall specimens tighter temperature ranges for mixing and compaction incorporating Asphalt Institute calculations in a User's Guide and improving presentation An ADOT construction project was used as an acid test to pilot the proposed mix design method and provide materials for a four laboratory round robin to evaluate the precision of testing AR AC materials The precision of round robin testing appears very similar to that of conventional asphalt concrete mixtures based on data from Proficiency Sample Programs of the AASHTO Materials Reference Laboratory and ADOT The results indicate that the mix design method developed can be used by qualified laboratories to provide suitable AR AC mix designs

A Performance-related Specification for Hot-mixed Asphalt, 2011 TRB's National Cooperative Highway Research Program NCHRP Report 704 A Performance Related Specification for Hot Mixed Asphalt provides a proposed performance related specification PRS for hot mix asphalt HMA in the form of the Microsoft Windows based Quality Related Specification Software QRSS The QRSS is a stand alone program for Microsoft Windows versions XP and 7 that employs a database of pre solved solutions of the Mechanistic Empirical Pavement Design Guide The program is capable of 1 calculating the predicted rutting fatigue cracking and low temperature thermal cracking of an HMA pavement from the mix volumetric and binder and aggregate properties of the as designed HMA typically the job mix formula and 2 comparing them with predictions calculated from the contractor's lot or sub lot quality assurance data for the same properties

Concrete Pavement Design and Rehabilitation John P. Zaniewski, 1986 The state of the art of Portland cement concrete pavement evaluation is reviewed with

emphasis on the methods applicable to the urban freeway environment Methods are recommended for texture evaluation void detection and condition surveys Data analysis methods useful for the development of pavement performance models are presented The overall framework for life cycle cost LCC analysis is described with recommendations for the development of a LCC method for the Arizona Department of Transportation *Proceedings - Association of Asphalt Paving Technologists, Technical Sessions* Association of Asphalt Paving Technologists,1986 Better Roads ,1994 *Effect of Highway Standards on Safety* Hugh W. McGee,Warren Edward Hughes,K. Daily,1995 **Asphalt Paving Technology** Association of Asphalt Paving Technologists,1986 **Proceedings of the ... Paving and Transportation Conference ...** ,1995

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