

# licrc Water Damage Test Answers

Determine Parameters Causing Water Damage to Asphalt Concrete Engineering News-record Evaluation of Procedures Used to Predict Moisture Damage in Asphalt Mixtures Asphalt Materials, Mixtures, Construction, Moisture Effects, and Sulfur The Log Views HRIS Abstracts Transactions The Indicator Transactions of ASME. Asphalt Paving Technology Indicator and National Journal of Insurance The Standard Eco-Materials Processing and Design X Water Sensitivity of Asphalt-aggregate Mixes Automatic Sprinkler Systems Handbook National Fire Codes for Extinguishing and Alarm Equipment Finance Chronicle and Insurance Circular Accelerated Performance-related Tests for Asphalt-aggregate Mixes and Their Use in Mix Design and Analysis Systems Evaluation of the Moisture Susceptibility of WMA Technologies Badru M. Kiggundu K. D. Stuart Mary McLaughlin Metallurgical Society of AIME. Association of Asphalt Paving Technologists Hyung Sun Kim Ronald L. Terrel Robert M. Hodnett National Fire Protection Association University of California, Berkeley Amy Epps Martin

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this report summarizes research involving the determination of parameters causing water damage to asphalt concrete the study was a cooperative effort between the federal highway administration fhwa and nmeri bituminous mixtures with a history of water susceptibility were fabricated by fhwa compacted mixtures were evaluated for moisture damage at fhwa then shipped to nmeri for chemical analysis of the binders extracted binders were analyzed by a modified clay gel procedure and infrared spectroscopy to determine whether differences between moisture conditioned and control asphalts could be measured an index of relative severity water damage has been defined from analysis of the data changes in certain asphalt chemical constituents may relate to retained strength for mixtures without antistripping additives potential moisture damage is predicted equally with a least two mechanical tests used for mixtures antistripping compounds keywords clay gel compositional analysis asphaltenes saturates aromatics polars asphalt generic composition asphalt functional group concentrations ketones sulfoxides carboxylic acids ir spectroscopy lottman procedure immersion compression percent retained strength antistripping additives or agents moisture damage severity and degree of relative severity

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the research presented in this report was conducted to identify the important factors influencing the water sensitivity of asphalt paving mixtures and to develop a test method

to evaluate water sensitivity of asphalt concrete mixtures for mix design the test method was to be performance related a review of current procedures revealed that no single method was suitable for evaluation and related to field performance based on a hypothesis that air voids in the mixture may be the major source and cause of water damage a test system was developed to evaluate the major factors that influence water sensitivity the environmental conditioning system ecs was used to develop a test procedure that includes specimen preparation measurement of permeability using air water or both vacuum wetting cycling at various temperatures and continuous repeated loading while monitoring resilient modulus after each conditioning cycle

this report provides a brief summary of the processes that led to the selection of performance related tests to define asphalt aggregate interactions that result in fatigue permanent deformation thermal cracking aging and water sensitivity inherent in this test selection process was the emphasis on the ability of the tests to measure fundamental material properties that when incorporated into prediction models will depend less on empirical correlations than has been traditionally the case also included are the results of validation studies for each of the tests and frameworks for the use of the tests in mix design and analysis several levels of design are provided for each distress some of which incorporate reliability concepts

trb s national cooperative highway research program nchrp report 763 evaluation of the moisture susceptibility of wma technologies presents proposed guidelines for identifying potential moisture susceptibility in warm mix asphalt wma the report also suggests potential revisions to the appendix to aashto r 35 special mixture design considerations and methods for wma as a means to implement the guidelines publisher s description

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