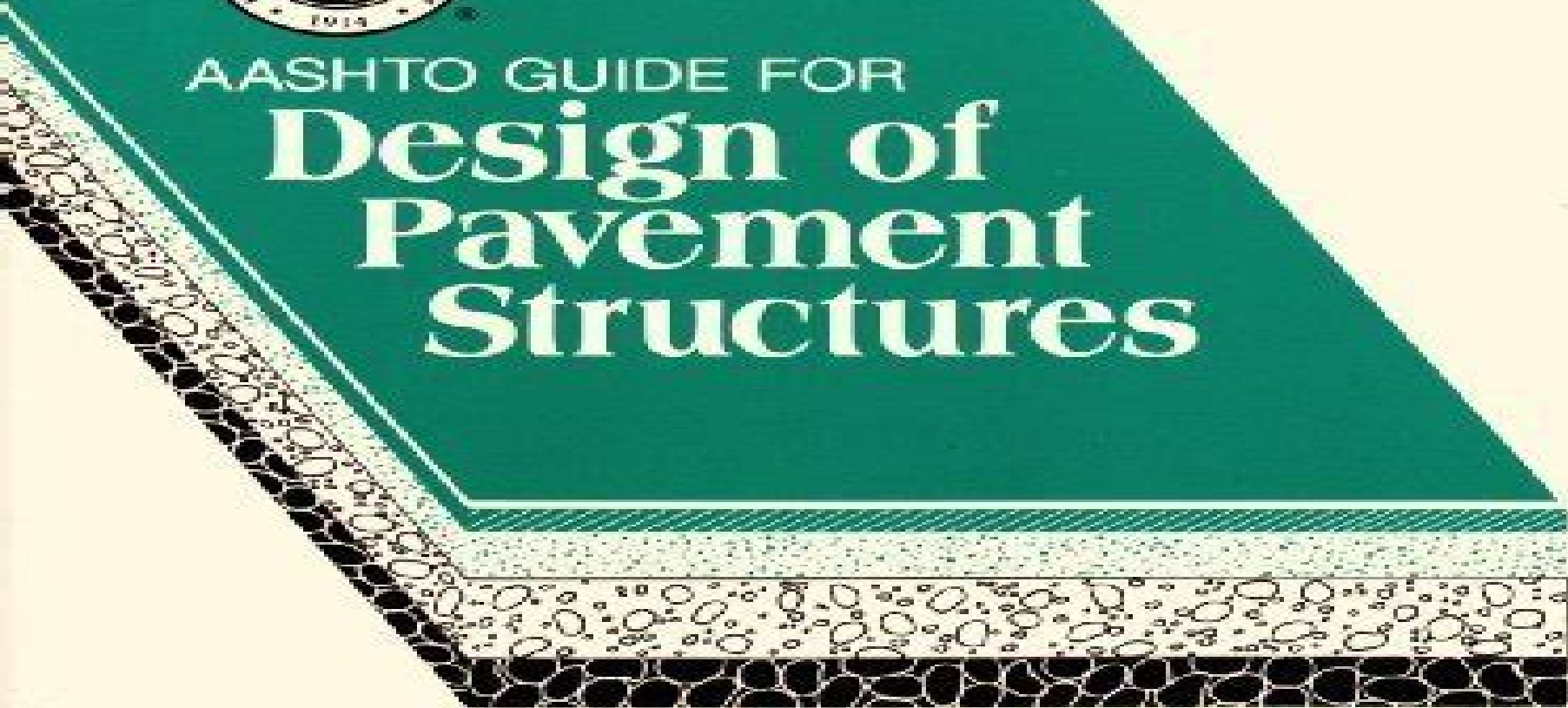




AASHTO GUIDE FOR

Design of Pavement Structures



PUBLISHED BY THE
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

Aashto Pavement Design Guide 2002

T.F. Fwa



Aashto Pavement Design Guide 2002:

Challenges Facing the Development and Implementation of the 2002 AASHTO Pavement Design Guide Todd V.

Scholz, Fred N. Finn, R. Gary Hicks, Transportation Research Board, 1998 **Implementation of the 2002 AASHTO Design Guide for Pavement Structures in KDOT** Stefan Anton Romanoschi, Taslima Khanum, James N. Mulandi, Sagar Bethu, Kansas. Department of Transportation. Bureau of Materials & Research, Mustaque Hossain, Kansas State University. Civil Engineering Department, K-TRAN (Research program), 2008 The National Cooperative Highway Research Program NCHRP 1 37A project has developed a guide for the design of new and rehabilitated pavement structures based on mechanistic empirical principles The guide is commonly known as Mechanistic Empirical Pavement Design Guide MEPDG The current American Association of State Highway and Transportation Officials AASHTO pavement design method is based on the empirical relationships that were developed from the AASHO Road Test done near Ottawa Illinois 1958 1960 The new NCHRP design guide based on mechanistic empirical principles combines the advantage of advanced analytical modeling capabilities and field performance observed in the pavements The transition from empirical to mechanistic empirical methods is challenging as the implementation of the new design guide requires site specific material traffic and climatic inputs for accurate analysis and prediction of pavement response and performance The objective of this work is to assist the Kansas Department of Transportation in implementation of the new design guide by developing a data base of material inputs required by MEPDG software for asphalt concrete mixes The comparison of measured and predicted dynamic moduli for the samples compacted at a target air void of 7% showed that the measured values were always higher than the values predicted by the Witczak model when the model used the binder data either derived from the laboratory tests or the values recommended by the NCHRP Guide The Hirsch model predicted moduli that were even lower than those predicted by the Witczak model The ratio between the measured and the predicted moduli increased when the air voids of the samples approached 4 0% For all but two asphalt mixes the predicted Indirect Tensile Strength ITS at 10 C was smaller than the average measured ITS the error being as much as 50% The models included in the MEPDG severely overestimate the creep compliance of Kansas Superpave mixes at 10 C The predicted values are about three times the corresponding measured values Traffic Load Spectra Development for the 2002 AASHTO Pavement Design Guide M. Shane Buchanan, 2004

Final Report, TRC-0302, AASHTO 2002 Pavement Design Guide Design Input Evaluation Study Kevin D.

Hall, Steven Beam, Meng Lee, 2006 A study was performed to assess the relative sensitivity of the models used in the M E Mechanistic empirical Design Guide to inputs relating to Portland cement concrete PCC materials in the analysis of jointed plain concrete pavements JPCP and to inputs relating to Hot Mix Asphalt HMA materials in the analysis of flexible pavements Abstract **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 **Pavement Engineering** Rajib B. Mallick,Tahar El-Korchi,2022-12-30 Pavement Engineering Principles and Practice examines a wide range of topics in asphalt and concrete pavements from soil preparation and structural design to life cycle costing and economic analysis This updated Fourth Edition covers all concepts and practices of pavement engineering in terms of materials design and construction methods for both flexible and rigid pavements and includes the latest developments in recycling sustainable pavement materials and resilient infrastructure New and updated topics include material characterization concepts and tests pavement management concepts probabilistic examples of life cycle cost analysis end of life considerations waste plastic in asphalt pervious concrete pavement monitoring instrumentation and data acquisition and more The latest updated references state of the art reviews and online resources have also been included **Public Roads** ,2003 Bearing Capacity of Roads, Railways and Airfields, Two Volume Set Erol Tutumluer,Imad L. Al-Qadi,2009-06-15 Bearing Capacity of Roads Railways and Airfields focuses on issues pertaining to the bearing capacity of highway and airfield pavements and railroad track structures and provided a forum to promote efficient design construction and maintenance of the transportation infrastructure The collection of papers from the Eighth International Conference **Engineering Geology and the Environment** G.C. Koukis,P.G. Marinos,G.C. Stourna,G.C. Tsiambaos,1997-01-01 Composed of the proceedings of a symposium on engineering geology and the environment held in Athens in June 1997 this work provides a survey of trends in engineering geology and an interdisciplinary collaboration with hydrogeology geochemistry geomorphology and soil and rock mechanics Effects of Heavy Loading on Wisconsin's Concrete Pavement Samuel Owusu-Ababio,Robert L. Schmitt (Ph.D.),2005

Aashto Pavement Design Guide 2002 Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Aashto Pavement Design Guide 2002**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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