

STP 1469

Performance Tests for Hot Mix Asphalt (HMA) Including Fundamental and Empirical Procedures

Stock #: STP1469

Table of Contents

An Overview of Fundamental and Simulative Performance Tests for Hot Mix Asphalt—*J. Zhang, E.R. Brown, P.S. Kandhal, R. West*

Utilization of an Asphalt Pavement Analyzer for Hot Mix Asphalt Laboratory Mix Design—*R.C. Williams, D.W. Hill, M.P. Rottermond*

Simulative Performance Test for Hot Mix Asphalt Using Asphalt Pavement Analyzer—*P.S. Kandhal, L.A. Cooley*

Laboratory Investigation of HMA Performance Using Hamburg Wheel Tracking and DSR Torsional Creep Tests—*G.H. Reinke, S. Glidden, D. Herlitzka, J. Jorgenson*

Use of HMA Stiffness Results as a Referee Test in Indiana—*R.S. McDaniel, V.L. Gallivan, G.A. Huber, D.H. Andrewski, M. Miller*

Mechanistic Quality Management of Hot Mix Asphalt Layers with Seismic Methods—*S. Nazarian, V. Tandon, D. Yuan*

Field Validation of Superpave Shear Test on NCAT Test Track—*J. Zhang, H. Xie, P.S. Kandhal, R.D. Powell*

Characterization Model for Design of Asphalt Mixtures and Asphalt Pavements—*T.F. Fwa, S.A. Tan*

Fracture Resistance Characterization of Superpave Mixtures Using the Semi-Circular Bending Test—*L. Mohammad, Z. Wu, L.B. Wang, M.A. Mull*

Dynamic Modulus Testing of Thin Pavement Cores—*T. Pellinen, S. Xiao, S.Y. Raval*

Identification of a Physical Model to Evaluate Rutting Performance of Asphalt Mixtures—*C.A. Drakos, R. Roque, B. Birgisson, M. Novak*

Obtaining Creep Compliance Parameters Accurately from Static or Cyclic Creep Tests—*R. Roque, J. Kim, B. Birgisson*

Characterization of Asphalt Concrete by Multi-Stage True Triaxial Testing—*L. Wang, L.R. Hoyos, L. Mohammad, C. Abadie*