1. Record Nr. UNINA9910164299503321

Autore	Mohammed L. N
Titolo	Performance Tests for Hot Mix Asphalt (HMA) Including Fundamental and Empirical Procedures
Pubbl/distr/stampa	[Place of publication not identified], : American Society for Testing & Materials, 2006
ISBN	0-8031-5515-8
Descrizione fisica	1 online resource (viii, 207 pages) : illustrations
Collana	ASTM special technical publication ; ; 1469
Disciplina	625.85
Soggetti	Pavements, Asphalt - Testing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	An overview of fundamental and simulative performance tests for hot mix asphalt / J. Zhang [and others] -- Utilization of an asphalt pavement analyzer for hot mix asphalt laboratory mix design / R.C. Williams, D.W. Hill, and M.P. Rottermond -- Simulative performance test for hot mix asphalt using asphalt pavement analyzer / P.S. Kandhal and L.A. Cooley -- Laboratory investigation of HMA performance using Hamburg wheel tracking and DSR torsional creep tests / G.H. Reinke [and others] -- Use of HMA stiffness results as a referee test in Indiana / R.S. McDaniel [and others] -- Mechanistic quality management of hot mix asphalt layers with seismic methods / S. Nazarian, V. Tandon, and D. Yuan -- Field validation of Superpave shear test on NCAT test track / J. Zhang [and others] -- C-[phi] characterization model for design of asphalt mixtures and asphalt pavements / T.F. Fwa and S.A. Tan -- Fracture resistance characterization of Superpave mixtures using semi-circular bending test / Z. WU [and others] -- Dynamic modulus testing of thin pavement cores / T. Pellinen, S. Xiao, and S.Y. Raval -- Identification of a physical model to evaluate rutting performance of asphalt mixtures / C.A. Drakos [and others] -- Obtaining creep compliance parameters accurately from static or cyclic creep tests / J. Kim, R. Roque, and B. Birgisson -- Characterization of asphalt concrete by multi-stage true triaxial testing / I. Wang [and others].
Sommario/riassunto	Thirteen peer-reviewed papers provide the latest international and state agency research on the use of performance tests for HMA mixture

design and field control. The papers are arranged in four groups designed to aid the reader in locating papers of interest and to compare and contrast the range of work and opinions presented: Mixture Simulative Performance Tests-relates to the practical use of some simulative loaded-wheel testers used in identifying rut-prone HMA mixtures. Mechanistic Test for Quality Control-includes papers in that the mechanistic tests were used in field Quality Control of HMA mixtures. Mechanistic Tests for Mixture Design-contains several papers relating to the need for mechanistic tests in HMA mixture design. Application of New Mechanistic Test Methods in HMA Mixture Performance Evaluation-focuses on the use of newly developed mechanistic test methods, which have potentials to be used in HMA mixture performance evaluation.