Constructing Smooth Hot Mix Asphalt (HMA) Pavements

M. Stroup-Gardiner, editor

ASTM Stock Number: STP 1433

Printed in the U.S.A.
Contents

OVERVIEW

STATE AGENCY PERSPECTIVES

Evaluation of Pavement Smoothness and Pay Factor Determination for the Alabama Department of Transportation—B. BOWMAN, B. PARKER ELLEN, III, AND M. STROUP GARDINER 3

Asphalt Concrete Smoothness Incentive Results by Highway Type and Design Strategy—J. DELTON, Y. LI, AND E. JOHNSON 27

Use of Automated Profilers to Replace NJDOT Rolling Straightedges—S. M. ZAGHLOU 43

AND N. VITILLO

The Road to Smooth Pavements in Tennessee—N. M. JACKSON, A. FUBRAN, R. E. HILL, AND G. D. HEAD 58

VDOT's IRI-Based Ride Quality Specifications: From Inception to 2001—T. M. CLARK AND K. K. MCGHEE 68

NATIONAL AND INTERNATIONAL PERSPECTIVES


EQUIPMENT COMPARISONS, MATERIALS CONSIDERATIONS, AND ANALYSES

Evaluating Methods of Measuring Smoothness in Newly Constructed HMA—C. T. WAGNER 117
CONTENTS

Effect of Temperature Differentials on Density and Smoothness—M. STRoup GARDINER,
C. T. WAGNER, D. T. HODGSON, AND J. SAIN 127

Characterizing Pavement Profile Using Wavelets Analysis—N. O. ATTOH-OKINE
AND S. MENSah 142