

# Contents

<b>Overview</b> —KENNETH R. WARDLAW AND SCOTT SHULER	
<b>Stabilization Mechanisms in Polyolefin-Asphalt Emulsions</b> —S. A. HESP AND R. T. WOODHAMS	
<b>Rheological Properties of Polymer-Modified Emulsion Residue</b> —D. A. ANDERSON, D. W. CHRISTENSEN, R. ROQUE, AND R. A. ROBYAK	
<b>The Determination of SBS, EVA and APP Polymers in Modified Bitumens</b> —F. S. CHOQUET AND E. J. ISTA	
<b>Influence of Binder Theology on Rut Resistance of Polymer Modified and Unmodified Hot Mix Asphalt</b> —M. G. BOULDIN AND J. H. COLLINS	
<b>An Evaluation of Heavy Duty Binders in the Laboratory</b> —M. MAYAMA, M. YOSHINO, AND K. HASEGAWA	
<b>Influence of the Rheological Properties of Modified Asphalt Binders on the Load Deformation Characteristics of the Binder-Aggregate Mixtures</b> —A. A. TAYEBALI, J. L. GOODRICH, J. B. SOUSA, AND C. L. MONISMITH	
<b>Design and Construction of Asphalt Concrete Using Polymer Modified Asphalt Binders</b> —T. S. SHULER, D. L. HANSON, AND R. G. MCKEEN	
<b>Laboratory and Field Studies of Polyolefin and Latex Modifiers for Asphalt Mixtures</b> —D. E. NEWCOMB, M. STROUP-GARDINER, AND J. A. EPPS	129
<b>Polymer Modified Hot Mix Asphalt—Oregon Experience</b> —D. F. ROGGE, R. L. TERRELL, AND A. J. GEORGE	151
<b>Performance of Polymer Modified Asphalt Mixes in Kentucky</b> —L. J. FLECKENSTEIN, K. MAHBOUB, AND D. L. ALLEN	173
<b>Analysis of the Influence of Low Density Polyethylene Modification (Novophalt) of Asphalt Concrete on Mixture Shear Strength and Creep Deformation Potential</b> —D. N. LITTLE	186
<b>Field Trials with Polymer Modified Asphalts in Saudi Arabia</b> —M. AL DHALAN, F. BALGHUNAIM, I. AL DHUBAIB, AND A. S. NOURELDIN	203

**The Determination of Bitumen and Recycled Tire Rubber Content in Rubberized Asphalt Road Mixtures—E. J. ISTA AND F. S. CHOQUET**

**Comparative Performance of Polymer Modified Hot Mix and the Practical Problems of Ensuring Performance—W. P. F. HEATHER**

**Thermo-Oxidative Degradation of Polymer Modified Bitumen—S. LINDE AND U. JOHANSSON**

**Viscosity Measurements of Polymer Modified Asphalts—B. P. SCHWAGER**

**SBS-Modified Asphalts for Surface Dressing—A Comparison Between Hot-Applied and Emulsified Binders—J. P. SERFASS, A. JOLY, AND J. SAMANOS**

**SBS Polymer Modified Asphalt Binder and its Implications on Overlay Design—A. SRIVASTAVA, P. C. HOPMAN, AND A. A. A. MOLENAAR**

**Polymer Modified Asphalt Concrete for Environmental Liners—R. L. TERREI**

**Characterisation of Polymer Modified Asphalt Binders for Roads and Airfields—P. K. JAIN, SANGITA, S. BOSE, AND I. R. ARYA**

**Author Index**

**Subject Index**