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Autore	BORGHI, Lamberto
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GRAVITY AND ABSORPTION TESTS OF COARSE AND FINE AGGREGATES; RESISTANCE OF SMALL-SIZE COARSE AGGREGATE TO DEGRADATION IN THE LOS ANGELES MACHINE; SIEVE ANALYSIS OF COARSE AND FINE AGGREGATES; CLAY LUMPS AND FRIABLE PARTICLES IN AGGREGATES; DENSITY OF HYDRAULIC CEMENT; SAND EQUIVALENT VALUE OF SOILS AND FINE AGGREGATE
INDEX OF AGGREGATE PARTICLE SHAPE AND TEXTUREFLAT AND ELONGATED PARTICLES IN COARSE AGGREGATE; STANDARD SPECIFICATIONS FOR WIRE CLOTH AND SIEVES FOR TESTING PURPOSES; CHAPTER 2. TESTS FOR ASPHALT MATERIALS; PENETRATION TEST; SOFTENING POINT; SPECIFIC GRAVITY TEST; SAYBOLT FUROL VISCOSITY TEST; FLASH POINT TEST; FLASH POINT BY THE PENSKY-MARTENS CLOSED TESTER; WATER IN PETROLEUM PRODUCTS BY DISTILLATION; DUCTILITY TEST; TESTING OF EMULSIFIED ASPHALTS; DISTILLATION OF CUT-BACK ASPHALT PRODUCTS; BULK SPECIFIC GRAVITY OF COMPACTED BITUMINOUS MIXTURES USING PARAFFIN-COATED SPECIMENS
MOISTURE OR VOLATILE DISTILLATES IN BITUMINOUS PAVING MIXTURESTHEORETICAL MAXIMUM SPECIFIC GRAVITY OF BITUMINOUS PAVING MIXTURES; SOLUBILITY TEST; KINEMATIC VISCOSITY OF ASPHALTS; ABSOLUTE VISCOSITY OF ASPHALTS BY VACUUM VISCOMETERS; QUANTITATIVE EXTRACTION OF BITUMEN FROM BITUMINOUS PAVING MIXTURES; VISCOSITY-TEMPERATURE CHART FOR ASPHALTS; BULK SPECIFIC GRAVITY OF COMPACTED BITUMINOUS MIXTURES USING SATURATED SURFACE-DRY SPECIMENS; ROLLING THIN FILM OVEN TEST; FLASH POINT OF CUTBACK ASPHALT WITH TAG OPEN-CUP APPARATUS; CHAPTER 3. MIX DESIGN PROCEDURES; MARSHALL METHOD OF MIX DESIGN
HVEEM METHOD OF MIX DESIGNEXPLANATION OF EFFECTIVE ASPHALT CONTENT DETERMINATION; APPENDICES; APPENDIX A - MEASUREMENT CONVERSION FACTORS BETWEEN U.S. STANDARD UNITS AND THE S.I. SYSTEM; APPENDIX B - LABORATORY RULES OF SAFETY AND PROCEDURES; APPENDIX C - REFERENCE SPECIFICATIONS FOR ASPHALT CEMENT,CUTBACKS, AND EMULSIONS, TABLE NUMBERS 7-14; APPENDIX D - OVERVIEW OF THE SHRP BINDER AND MIX DESIGN ANALYSES AND METHODS; APPENDIX E - UNDERSTANDING ASPHALT EMULSIONS; APPENDIX F - BIBLIOGRAPHY; G - ADDITIONAL COPIES OF THE LABORATORY DATA SHEETS; COARSE AND FINE AGGREGATES SPECIFIC DATA SHEET
SIEVE ANALYSIS FOR FINE AND COARSE AGGREGATESMINERAL AGGREGATES BY WASHING; MILLIMETER SCALE; U.S. BUREAU OF PUBLIC ROADS 0.45 POWER GRADATION CHART; COMBINED GRADATION FORM; PORTLAND CEMENT SPECIFIC GRAVITY DETERMINATION; INDEX OF AGGREGATE PARTICLE SHAPE AND TEXTURE; PARTICLE SHAPE COMPOSITION IN COARSE AGGREGATE SAMPLE; PENETRATION TEST; SOFTENING POINT TEST; SPECIFIC GRAVITY OF ASPHALT; SAYBOLT VISCOSITY TEST; FLASH AND FIRE POINTS TEST; FLASH POINT TEST BY PENSKY-MARTENS APPARATUS; DUCTILITY TEST; KINEMATIC VISCOSITY DATA SHEET - REVERSE FLOW VACUUM CAPILLARY VISCOMETERS KINEMATIC VISCOSITY DATA SHEET - VACUUM CAPILLARY VISCOMETERS

Sommario/riassunto

The purpose of this manual is to familiarize industry and students with the technology of asphalt in its several forms namely asphalt cement, cutback asphalt, and asphalt emulsions. The laboratory work is designed to develop an understanding of asphalt properties, characteristics, testing procedures, and specifications. The procedures outlined are all derived from ASTM designations and practice as recommended by the Asphalt Institute. Where the particular ASTM

method permits alternate procedures, the one more applicable to the available equipment and the teaching situation was chosen.<