

STP 1147

# Effects of Aggregates and Mineral Fillers on Asphalt Mixture Performance

Editor  
R.C. McIndoo



# Effects Of Aggregates And Mineral Fillers On Asphalt Mixture Performance Astm Special Technical Publications 1147

**Chao Zhang**



## Effects Of Aggregates And Mineral Fillers On Asphalt Mixture Performance Astm Special Technical Publications 1147:

**Effects of Aggregates and Mineral Fillers on Asphalt Mixture Performance** Richard C. Meiningier, 1992 Resulting from the Symposium on title held in December 1991 at the ASTM Standardization Meetings in San Diego this volume comprises 19 papers in four sections aggregates mineral fillers mixture evaluation and fatigue modeling and theoretical Member price 52 Annotation copyright Book N

**Methods to Achieve Rut-resistant Durable Pavements** Gerald A. Huber, 1999 This synthesis report will be of interest to state local and federal agency pavement materials design and construction engineers as well as pavement research engineers and scientists Those with supervisory oversight for pavement programs will also find it of interest It describes the current practice for methods to achieve rut resistant durable pavements The synthesis documents current experience with permanent deformation of asphalt pavements and identifies methods to improve performance Information for the synthesis was collected by surveying U S and Canadian transportation agencies and by conducting a literature search using domestic and international sources This report of the Transportation Research Board describes the extent of the rutting problem on the National Highway System pavement mixture design issues and the design of rut resistant mixtures In addition alternate mixture types including stone matrix asphalt and porous asphalt are discussed as well as international approaches to mixture design Finally the construction of rut resistant mixtures including the role of quality control and quality assurance methods are discussed A summary of permanent deformation causes and solutions is included in the appendix

**Synthesis of Highway Practice** National Cooperative Highway Research Program, 1999

**Factors that Affect the Voids in the Mineral Aggregate in Hot Mix Asphalt** Timothy Aschenbrener,1992  
Transportation Research Record ,1998 日本道路学会 (Japan),1900 Bicycle and Pedestrian  
Research, 1998 National Research Council (U.S.). Transportation Research Board,1998 *Development of Rutting*  
*Progression Models by Combining Data from Multiple Sources* Adrián Ricardo Archilla,2000 *Ninth CANMET/ACI*  
*International Conference on Recent Advances in Concrete Technology* V. M. Malhotra,2007 **Seventh National**  
**Conference on Light Rail Transit** National Research Council (U.S.). Transportation Research Board,1997 The 1995  
National Conference on Light Rail Transit LRT Building on Success Learning from Experience emphasizes the lessons  
resulting from the maturing of North American LRT systems The conference adds to the growing body of knowledge and real  
world experiences with modern LRT applications Volume 1 contains 36 conference papers organized in four parts Volume 2  
contains both conference papers and associated papers presented at the 1996 Annual Meeting of the Transportation  
Research Board in Washington D C *Subject Guide to Books in Print* ,1997 **Canadian Geotechnical Journal** National  
Research Council Canada,2003 **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff,R R Bowker  
Publishing,1996-09 ASTM Standardization News American Society for Testing and Materials,1993 **Applications of**

**Emerging Technologies in Transportation**, 1998 **Index of Conference Proceedings** British Library. Document Supply Centre, 1993 American Book Publishing Record Cumulative 1993 R R Bowker Publishing, 1994-03 Cited in BCL3 Sheehy and Walford Compiled from the 12 monthly issues of the ABPR this edition of the annual cumulation lists by Dewey sequence some 41 700 titles for books published or distributed in the US Entry information is derived from MARC II tapes and books submitted to R R Bowker and

**Implication of Aggregates in the Design, Construction, and Performance of Flexible Pavements** Hans G. Schreuders, Charles R. Marek, 1989 *Engineering Properties of Asphalt Mixtures and the Relationship to Their Performance* Gerald A. Huber, Dale S. Decker, 1995 Thirteen papers presented at the conference on title held in Phoenix Arizona December 1994 discuss the products of the strategic highway research program the Superpave method of mix design and test methods for fatigue cracking and permanent deformation Lacks an index Annotation c by Book

**Effects of Minus No. 200-Sized Aggregate on Fracture Behavior of Dense-Graded Hot-Mix Asphalt** DA. Anderson, DW. Christensen, R. Dongre, EL. Dukatz, 1992 The effect of minus No 200 sized material mineral filler on the fundamental mechanical properties of hot mix asphalt is not well understood In the work reported in this paper a series of minus No 200 75 m mineral fillers were used to prepare and characterize filler asphalt mastics and hot mix asphalt concrete The mineral fillers were blends of dust of fracture and baghouse dust was sampled from seven sources The gradation and the void filling characteristics of the mineral fillers were determined Mastics prepared with the fillers were characterized with viscosity measurements at 60 C 140 F and dynamic mechanical properties storage modulus loss modulus and tan delta over a wide temperature range Mixtures containing the mineral fillers were prepared using several different filler asphalt ratios Originally the behavior of the mixes was to be evaluated with a fatigue test in which a test beam is supported on an elastic lowmodulus rubber foundation This test method proved unacceptable because the failures that occurred were in shear rather than bending fatigue As an alternative the single edge notched beam SENB fracture toughness test was used With this procedure it was possible to determine the fracture toughness of the mixes as a function of temperature The source of the mineral filler as reflected by the properties of the mineral filler asphalt mastics was correlated with the fracture toughness properties of the mixes

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