

This book studies the procedure for modifying 80/100 penetration grade bitumen using various percentages of Crumb Rubber (CR) and High-density Polyethylene (HDPE) modifiers. Physical properties of modified bitumen with different percentage (2% to 8%) of CR and HDPE were evaluated. It is found that the penetration value, softening point and elastic recovery of bitumen can be improved significantly by adding CR and HDPE. Marshall Stability method is adopted for mix design and the mechanical properties of the modified bituminous mixes are determined. The stability is improved by 45% when HDPE+CR were mixing together. Marshall retained stability and indirect tensile strength tests were conducted to determine the ability of the modified mixes to withstand adverse soaking conditions. There was significant improvement in Retained Stability (%) and Indirect Tensile strength ratio due to lesser voids present in bituminous mixes containing CR and HDPE thus resulting in reduction in water permeability.



Dr. Lakshman Singh



Dr. Kh. Lakshman Singh, Assistant professor, Civil Engineering Department of MIT Sikkim, India has more than 9 years teaching and research experience. He has obtained his Ph.D degree in Civil Engineering in 2006 from IIT Roorkee, India. His research interest is in the area of Rheology of binders, Bituminous mixes, and Materials characterization.

Laboratory Study on Modified Bituminous Binders and its Mixes

Studies of modified bituminous binders with CR and HDPE



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Bituminous Binders And Mixes

Gerald Huber, Gerald A. Huber



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A.F. Nikolaidis,E. Manthos,2019-05-24 Highway engineers are facing the challenge not only to design and construct sustainable and safe pavements properly and economically This implies a thorough understanding of materials behaviour their appropriate use in the continuously changing environment and implementation of constantly improved technologies and methodologies Bituminous Mixtures and Pavements VII contains more than 100 contributions that were presented at the 7th International Conference Bituminous Mixtures and Pavements 7ICONFBMP Thessaloniki Greece 12 14 June 2019 The papers cover a wide range of topics Bituminous binders Aggregates unbound layers and subgrade Bituminous mixtures Hot Warm and Cold Pavements Design Construction Maintenance Sustainability Energy and environment consideration Pavement management Pavement recycling Geosynthetics Pavement assessment surface characteristics and

safety Posters Bituminous Mixtures and Pavements VII reflects recent advances in highway materials technology and pavement engineering and will be of interest to academics and professionals interested or involved in these areas

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Long and Deep Tunnels Vittorio Guglielmetti, Shulin Xu, Gianni Alberto Arrigoni, Piergiorgio Grasso, 2016-04-15 The design and construction of long and deep tunnels i.e. tunnels under mountains characterised by either considerable length and/or overburden represent a considerable challenge. The scope of this book is not to instruct how to design and construct such tunnels but to share a method to identify the potential hazards related to the process of designing and constructing long and deep tunnels to produce a relevant comprehensive analysis and listing to quantify the probability and consequences and to design proper mitigation measures and countermeasures. The design developed using probabilistic methods is verified during execution by means of the so-called Plan for Advance of the Tunnel (PAT) method which allows adapting the design and control parameters of the future stretches of the tunnel to the results of the stretches already finished using the monitoring data base. Numerous criteria are given to identify the key parameters necessary for the PAT procedure. Best practices of excavation management with the help of real-time monitoring and control are also provided. Furthermore, cost and time evaluation systems are analysed. Finally, contractual aspects related to construction by contract are investigated for best development and application of models more appropriate for tunnelling construction contracts. The work will be of interest to practising engineers, designers, consultants and students in mining, underground tunnelling, transportation and construction engineering as well as to foundation and geological engineers, urban

planners developers and architects **A Manual for Design of Hot Mix Asphalt with Commentary**, 2011 **Physical Properties of Asphalt Cement Binders** John C. Hardin, 1995 A dozen papers from a December 1993 symposium in Dallas Fort Worth Texas Among the topics are why the new proposed rheological properties of asphalt binders are required and how they compare to conventional properties the development and use of the SHRP direct tension specification test oxidation Effects of Aggregates and Mineral Fillers on Asphalt Mixture Performance Richard C. Meininger, 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 **Asphalt Paving Technology 2011** Eugene L. Skok, 2011-06-28 **Recommended Performance-related Specification for Hot-mix Asphalt Construction** Jon A. Epps, 2002 **Improved Mix Design, Evaluation, and Materials Management Practices for Hot Mix Asphalt with High Reclaimed Asphalt Pavement Content** Randy Clark West, James Richard Willis, Mihai O. Marasteanu, 2013 TRB's National Cooperative Highway Research Program NCHRP Report 752 Improved Mix Design Evaluation and Materials Management Practices for Hot Mix Asphalt with High Reclaimed Asphalt Pavement Content describes proposed revisions to the American Association of State Highway and Transportation Officials AASHTO R 35 Superpave Volumetric Design for Hot Mix Asphalt and AASHTO M 323 Superpave Volumetric Mix Design to accommodate the design of asphalt mixtures with high reclaimed asphalt pavement contents

Report No. FHWA-RD. United States. Federal Highway Administration. Offices of Research and Development, 1974

Performance and Durability of Bituminous Materials J.G. Cabrera, 1995-11-09 This book covers new advances in materials and methods particularly orientated towards the optimization of energy expenditure required for the preparation of aggregates bituminous binders and bituminous mixtures and the implications which arise with regard to the European specifications and codes of practice Performance Survey on Open-graded Friction Course Mixes Gerald Huber, Gerald A. Huber, 2000 This synthesis will be of interest to pavement construction maintenance design and materials engineers pavement contractors and others interested in the use of open graded friction course OGFC mixes It describes the current state of the practice on the use of OGFC mixes including information regarding design materials construction maintenance and rehabilitation strategies Alternative treatments to traditional OGFC are also identified and discussed Information was collected by surveying U S and Canadian transportation agencies and by conducting a literature search to gather additional insight into North American and European practices This TRB report describes the recent performance of North American OGFC mixes and European porous asphalt by identifying benefits and stress indicators A new generation of OGFC mixes has evolved over the last 5 years with changes that have been reported to dramatically improve performance This synthesis describes new materials and design methods being used as well as the applicability of the new generation of open graded mixtures to North American use *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 *Asphalt Pavements* Y. Richard Kim, 2014-11-06 Asphalt Pavements contains the proceedings of the International Conference on Asphalt Pavements Raleigh North Carolina USA 1 5 June 2014 and discusses recent advances in theory and practice in asphalt materials and pavements The contributions cover a wide range of topics Environmental protection and socio economic impacts Additives and mo

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