
Asphalt Pavements provides the know-how behind the design, production and maintenance of asphalt pavements and parking lots. Incorporating the latest technology, this book is the first to focus primarily on the design, production and maintenance of low-volume roads and parking areas. Special attention is given to determining the traffic capacity, required thickness and asphalt mixture type for parking applications. Topics covered include: material information such as binder properties, testing grading and selection; construction information such as mixing plant operation, proportioning, mixture placement and compaction; and design information such as thickness and mixture design methods and guidelines on applying these to highways, city streets and parking areas. It is an essential practical guide aimed at those engineers and architects who are not directly involved in the asphalt industry, but who nonetheless need to have a good general knowledge of the subject. Asphalt Pavements provides a novice with enough information to completely design, construct and specify an asphalt pavement.

Design and Construction of Asphalt Paving Materials with Crumb Rubber Modifier

Carlsbad Caverns National Park (N.P.) General Management Plan (General Management Plan (GMP)), Eddy County

An Assessment of Various Rumble Strip Designs and Pavements Markings Applications for Crosswalks and Work Zones

Fabrics in Asphalt Overlays and Pavement Maintenance

Synthesis of Highway Practice

Permeable Pavements

Effect of Air Pollution Regulations on Highway Construction and Maintenance

Aesthetic Concrete Barrier Design

Roadside Design Guide

A Mechanistic Approach to Evaluate Contribution of Prime and Tack Coat in Composite Asphalt Pavements

Flexible Pavement Design Manual for New Construction and Pavement Rehabilitation

Cost-effective Preventive Pavement Maintenance

Report Sponsored by the Low Impact Development Committee of the Urban Water Resources Research Council of the Environmental and Water Resources Institute of ASCE.

Permeable Pavements is a comprehensive resource for the proper design, construction, and maintenance of permeable pavement systems that provide a transportation surface and a best management practice for stormwater and urban runoff. A cornerstone for low impact development (LID) and sustainable site design, permeable pavements are considered a green infrastructure practice. They offer many environmental benefits, from reduced stormwater runoff and improved water quality to better site design and enhanced safety of paved surfaces. Commonly used for walkways, driveways, patios, and low-volume roadways as well as recreational areas, parking lots, and plazas, permeable pavements are appropriate for many different land uses, particularly in highly urbanized locations. This volume synthesizes today's knowledge of the technology, drawing from academia, industry, and the engineering and science communities. It presents an overview of typical permeable pavement systems and reviews the design considerations. Detailed design, construction, use, and performance information is provided for porous asphalt, pervious concrete, permeable interlocking concrete pavement, and grid pavements. Fact sheets and checklists help to successfully incorporate permeable pavement systems into design projects. Additional chapters summarize emerging technologies, maintenance considerations, hydrologic design approaches, key components for specification writing, and key areas for additional research. Appendices include a fact sheet clarifying information on common concerns, as well as data tables summarizing water quality treatment performance and costs. Permeable Pavements is an essential reference for engineers, planners, landscape architects, municipalities, transportation agencies, regulatory agencies, and property owners planning to implement this best management practice for stormwater and urban runoff.

Rigid Pavement Analysis and Design

Asphalt Pavements

Evaluation of Methods of Replacement of Deteriorated Concrete in Structures Guidelines to utilize the research findings from the AASHO road test at Ottawa, Illinois, are presented. The guidelines present a method of studying the interrelationships of performance variables and design variables of selected pavement sections so that comparisons may be made. 3 types of design variables are discussed: the structural variable which describes the strength characteristics of pavement layers, the load variable reported in terms of accumulated axle loads, and the climatic or regional variable which describes external influences.

Thin-surfaced Pavements

AASHTO Guide for Design of Pavement Structures, 1993

Design of a Post-tensioned Prestressed Concrete Pavement, Construction Guidelines, and Monitoring Plan Evaluation of analysis models and design methods.

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