PAVEMENT MANAGEMENT SYSTEMS

Pavement management systems uses the systems approach to provide a unified treatment of pavement design, testing, construction, maintenance, evaluation, and restoration. This book presents the general framework for pavement management, and describes the component activities that are part of pavement management. The authors consider all the materials, economic, traffic, and climatic factors that affect pavements, and present techniques that can be used for analysis as part of the management operation. This book presents the principles of applied systems engineering as well as the concepts of pavement engineering, enabling readers to review the entire process of pavement management and place their own activities and responsibilities in the larger systems context. Pavement evaluation and performance concepts are given thorough treatment, and all available working pavement systems models are discussed and compared. Pavement management systems offers the reader a complete survey that depicts relationships between materials, design, and mechanics and includes a comprehensive analysis featuring techniques for analyzing pavement investment options. /TRRL/

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pavement management systems procedures. Topics investigated include but are not limited to: PMSs higher-level methodologies used at state and federal levels, applications of PMSs designed for local agencies, pavement life modeling, commercial PMSs and pavement treatments efficiency. The literature review serves the purpose of understanding the current state-of-practice technologies, as well as their current strengths and weaknesses in pavement management systems. What Is Pavement Management? Pavements represent the largest capital investment in any modern highway system. Maintaining and operating pavements on a large highway system typically involves complex decisions about how and when to resurface or apply other treatments to keep the highway performing and operating costs at a reasonable level. Traditional methods, used since Roman times, left these decisions up to a road supervisor who would select treatments based on his extensive knowledge and experience. Lecture on Pavement Management Systems in the course Road Construction and Maintenance Spring 2014. Asset Management Systems. Management questions. Pavement Management Systems is multidiciplinary. Example: Municipality of Mörbylånga. Equipment. Summary Sigtuna. Pavement Management Systems - PMS. Slide Number 33. Slide Number 34.