

State of California  
Department of Transportation

# CONCRETE PAVEMENT GUIDE



Division of Maintenance  
Pavement Program  
1600 Wilson Boulevard, Suite 200  
Sacramento, CA 95811

January 2013

# Concrete Pavement Guide

**Toy S. Poole**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Concrete Pavement Guide:

*A Practical Guide to Concrete Pavement Technology for Developing Countries* Asian Development Bank, 2021-12-01 Many countries are exploring the use of concrete to improve the reliability of their road networks However many developers agencies and companies in the construction industry do not yet have sufficient experience in the use of concrete pavement This can lead to poorly planned supervised or executed infrastructure that requires premature and costly repairs or maintenance This guide explains the factors to investigate and considerations to evaluate as well as the potential risks and mistakes to avoid when planning and constructing concrete pavement It is a comprehensive resource that will be especially useful for stakeholders in developing countries Guide for Design of Jointed Concrete Pavements for Streets and Local Roads ACI Committee 325, 2002 **The Concrete Pavement Restoration Guide**, 1997 *Concrete Pavement Design, Construction, and Performance* Norbert Delatte, 2018-10-08 Addressing the interactions between the different design and construction variables and techniques this book illustrates best practices for constructing economical long life concrete pavements The book proceeds in much the same way as a pavement construction project First different alternatives for concrete pavement solutions are outlined The desired performance and behaviour parameters are identified Next appropriate materials are outlined and the most suitable concrete proportions determined The design can be completed and then the necessary construction steps for translating the design into a durable facility are carried out Although the focus reflects highways as the most common application special features of airport industrial and light duty pavements are also addressed Use is made of modeling and performance tools such as HIPERPAV and LTPP to illustrate behavior and performance along with some case studies As concrete pavements are more complex than they seem and the costs of mistakes or of over design can be high this is a valuable book for engineers in both the public and private sectors **Concrete Pavement Rehabilitation Guide** Virginia. Department of Transportation. Pavement Design and Evaluation Section, 1995 **The Concrete Pavement Road Map**, 2005 The Concrete Pavement CP Road Map is a comprehensive and strategic plan for concrete pavement research that will guide the investment of research dollars for the next several years It will result in technologies and systems that help the concrete pavement community meet the paving needs of today and the as yet unimagined paving challenges of tomorrow In short the CP Road Map will result in a new generation of concrete pavements for the 21st century *Guide for Curing of Portland Cement Concrete Pavements* Toy S. Poole, 2006 **Concrete Pavement Preservation Guide** Kurt D. Smith, 2014 This document provides valuable guidance and information on the selection design and construction of cost effective concrete pavement preservation treatments It is based on a document prepared in 2008 but has been revised and expanded to include updated information to assist highway agencies in effectively managing their concrete pavement network through the application of timely and effective preservation treatments The preservation approach typically uses low cost minimally invasive techniques to improve the overall condition of the pavement

In addition to several introductory chapters covering pavement preservation concepts and pavement evaluation eight chapters on specific concrete pavement preservation treatments are included slab stabilization partial depth repairs full depth repairs retrofitted edge drains load transfer restoration diamond grinding joint resealing and concrete overlays Each of these chapters discusses the purpose of each treatment its limitations and effectiveness material and design considerations construction recommendations and quality assurance troubleshooting information In addition a final chapter is included on strategy selection procedures

### **Concrete Pavement Design, Construction, and Performance, Second Edition**

Norbert J. Delatte, 2014-05-22 This second edition of Concrete Pavement Design Construction and Performance provides a solid foundation for pavement engineers seeking relevant and applicable design and construction instruction It relies on general principles instead of specific ones and incorporates illustrative case studies and prime design examples to highlight the material It presents a thorough understanding of materials selection mixture proportioning design and detailing drainage construction techniques and pavement performance It also offers insight into the theoretical framework underlying commonly used design procedures as well as the limits of the applicability of the procedures All chapters have been updated to reflect recent developments including some alternative and emerging design technologies that improve sustainability What's New in the Second Edition The second edition of this book contains a new chapter on sustainability and coverage of mechanistic empirical design and pervious concrete pavements RCC pavements are now given a new chapter The text also expands the industrial pavement design chapter Outlines alternatives for concrete pavement solutions Identifies desired performance and behavior parameters Establishes appropriate materials and desired concrete proportions Presents steps for translating the design into a durable facility The book highlights significant innovations such as one is two lift concrete pavements precast concrete pavement systems RCC pavement interlocking concrete pavers thin concrete pavement design and pervious concrete This text also addresses pavement management maintenance rehabilitation and overlays

### **Guide for Design and Construction of New Jointed Plain Concrete Pavement (JPCPs). ,2008 Concrete Pavement Mixture Design and Analysis (MDA)**

Shiraz Tayabji, Daniel Cook, Peter Taylor, Gary Fick, 2012 This guide specification and commentary for concrete pavements presents current state of the art thinking with respect to materials and mixture selection proportioning and acceptance This document takes into account the different environments practices and materials in use across the United States and allows optional inputs for local application The following concrete pavement types are considered jointed plain concrete pavement the most commonly used pavement type and may be doweled or non doweled at transverse joints and continuously reinforced concrete pavement typically constructed without any transverse joints typically used for locations with high truck traffic loads and or poor support conditions

### **Concrete Pavement Rehabilitation ,1997**

Load transfer restoration LTR is a rehabilitation technique for increasing the load transfer capability of existing jointed portland cement concrete pavement by placement of dowel bars or other mechanical devices across joints and or cracks that

exhibit poor load transfer      **Pavement Management Guide** Roads and Transportation Association of Canada. Pavement Management Committee, 1977      *User's Guide* Reed B. Freeman, United States. Army. Corps of Engineers, U.S. Army Engineer Waterways Experiment Station, US Army Center for Public Works, Facilities Engineering Applications Program (U.S.), Geotechnical Laboratory (U.S.), 1996      **Guide to Concrete Overlays** Dale S. Harrington, 2008      **Determining Asphaltic Concrete Pavement Structural Properties by Nondestructive Testing** National Research Council (U.S.). Transportation Research Board, 1990      *Asphalt Rubber Concrete Pavement. User's Guide*, 1994 Asphalt rubber concrete pavements include at least two types of flexible pavement surfacings made with asphalt rubber cement as the binder stone mastic and open graded mixtures The asphalt rubber binder generally contains 15 to 25 percent recycled scrap tire rubber blended with standard paving grade asphalt cement Asphalt rubber concrete pavements are applicable to virtually any flexible pavement surfacing requirement providing such performance benefits as reduced temperature susceptibility reduced low temperature cracking potential reduced high temperature deformation distress potential reduced age hardening potential and reduced binder aggregate stripping potential This report includes discussions of the description applications benefits limitations costs and recommended uses for asphalt rubber concrete pavements A model guide specification for open and gap graded asphalt rubber concrete pavements is also provided in the appendix of this report Asphalt concrete Asphalt rubber Gap graded pavement Open graded pavement Pavement construction Pavement design Porous friction course Recycling Stone mastic Waste materials      *Concrete Pavement Design, Construction, and Performance* Norbert J. Delatte, 2014-05-22 This second edition of Concrete Pavement Design Construction and Performance provides a solid foundation for pavement engineers seeking relevant and applicable design and construction instruction It relies on general principles instead of specific ones and incorporates illustrative case studies and prime design examples to highlight the material It presents a thorough understanding of materials selection mixture proportioning design and detailing drainage construction techniques and pavement performance It also offers insight into the theoretical framework underlying commonly used design procedures as well as the limits of the applicability of the procedures All chapters have been updated to reflect recent developments including some alternative and emerging design technologies that improve sustainability What's New in the Second Edition The second edition of this book contains a new chapter on sustainability and coverage of mechanistic empirical design and pervious concrete pavements RCC pavements are now given a new chapter The text also expands the industrial pavement design chapter Outlines alternatives for concrete pavement solutions Identifies desired performance and behavior parameters Establishes appropriate materials and desired concrete proportions Presents steps for translating the design into a durable facility The book highlights significant innovations such as one is two lift concrete pavements precast concrete pavement systems RCC pavement interlocking concrete pavers thin concrete pavement design and pervious concrete This text also addresses pavement management maintenance rehabilitation and overlays      Guide to

Concrete Overlay Solutions ,2007 This guide will help readers understand concrete overlays and develop confidence in their application The guide provides the key elements of the six major types of concrete overlays along with specifics on materials typical sections and important construction elements      Interim Guide for Optimum Joint Performance of Concrete Pavements ,2011 The purpose of this guide is to help practitioners understand how to optimize concrete pavement joint performance through the identification mitigation and prevention of joint deterioration It summarizes current knowledge from research and practice to help practitioners access the latest knowledge and implement proven techniques Emphasizing that water is the common factor in most premature joint deterioration this guide describes various types of joint deterioration that can occur Some distresses are caused by improper joint detailing or construction and others can be attributed to inadequate materials or proportioning D cracking is a form of joint distress that results from the use of poor quality aggregates A particular focus in this guide is joint distress due to freeze thaw action Numerous factors are at play in the occurrence of this distress including the increased use of a variety of deicing chemicals and application strategies Finally this guide provides recommendations for minimizing the potential for joint deterioration along with recommendations for mitigation practices to slow or stop the progress of joint deterioration

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