

## Highway Engineering Indian Author Book

Principles, Practice and Design of Highway Engineering  
Pavement Asset Management  
BITUMINOUS ROAD CONSTRUCTION IN INDIA  
Traffic and Pavement Engineering  
Road Maintenance Management  
Civil Engineering Materials  
Highway Planning, Survey, and Design  
Roadwork  
A Textbook of Transportation Engineering  
HIGHWAY ENGINEERING, 7TH ED  
Highway Design and Traffic Safety Engineering Handbook  
Urban Transit Systems and Technology  
Introduction to Tunnel Construction  
Highway Engineering  
HIGHWAY ENGINEERING (ALL INDIA AE/JE)  
Applied Mechanics and Civil Engineering VI  
Handbook of Road Ecology  
Highway Engineering Handbook, 2e  
Pavement Design and Materials  
The Indian and Eastern Engineer  
Highway Engineering  
PRINCIPLES OF TRANSPORTATION ENGINEERING  
Highway Engineer and Contractor. Transportation Engineering  
TRANSPORTATION ENGINEERING  
Transport Planning and Traffic Engineering  
The Handbook of Highway Engineering  
Highway Engineering  
PRINCIPLES OF HIGHWAY ENGINEERING AND TRAFFIC ANALYSIS, 4TH EDITION  
The Big Roads  
Geometric Design of Roads Handbook  
A Text Book on Highway Engineering  
Highway Engineering  
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Principles, Practice and Design of Highway Engineering  
Road Engineering for Development  
Pavement Drainage: Theory and Practice  
Highway Engineering  
Highway Bridge Maintenance Planning and Scheduling  
Advances in Transportation Engineering

### Principles, Practice and Design of Highway Engineering

Truly unique, this is the first book to present a thoroughly scientific and practical approach to designing highways for maximum safety. Based on original research plus scrupulously collected data amassed over more two decades in different continents by the main author, this important book originates vital criteria for safe design and shows you how best to achieve roads with the lowest possible accident risk and severity rates. A true must-read for highway engineers and safety officials, Highway Design and Traffic Safety Engineering Handbook provides up-to-date information that is available nowhere else and a complete, practical program for designing the safest possible roadways. The authors, who are noted international authorities on highway safety, give you essential information on sound new designs, design cases to avoid, examples of good and poor solutions, the redesign of existing roads, and far more. In addition, this valuable and necessary resource gives you serious help coordinating safety concerns with important economic, environmental, and aesthetic considerations. The new standard in highway design methods, this book will become a keystone in every highway designer's library.

### Pavement Asset Management

For B.E./B.Tech. & M.E/ M.Tech. Students of Civil Engineering. Also for Practising Engineering and Designers

### BITUMINOUS ROAD CONSTRUCTION IN INDIA

SUMMARY This book provides complete coverage of surface and subsurface drainage of all types of pavements for highways, urban roads, parking lots,

airports, and container terminals. It provides up-to-date information on the principles and technologies for designing and building drainage systems and examines numerous issues, including maintenance and designing for flood events. Practical considerations and sophisticated analysis, such as the use of the finite element method and unsaturated soil mechanics, anisotropy and uncertainties, are presented. This book allows civil engineers to make the best use of their resources to provide cost effective and sustainable pavements. Features Presents a holistic consideration of drainage with respect to pavement performance. Includes numerous practical case studies. Examines flooding and the impacts of climate change. Includes PowerPoint slides which include quizzes, schematics, figures, and tables.

## **Traffic and Pavement Engineering**

This book is an ethnographic study of the travelling art exhibition Indian Highway that presented Indian contemporary art in Europe and China between 2008 and 2012, a significant period for the art world that saw the rise and fall of the national exhibition format. It analyses art exhibition as a mobile "object" and promotes the idea of art as a transcultural product by using participant observation, in-depth interviews, and multi-media studies as research method. This work encompasses voices of curators, artists, audiences, and art critics spread over different cities, sites, and art institutions to bridge the distance between Europe and India based on vignettes along the Indian Highway. The discussion in the book focuses on power relations, the contested politics of representation, and dissonances and processes of negotiation in the field of global art. It also argues for rethinking analytical categories in anthropology to identify the social role of contemporary art practices in different cultural contexts and also examines urban art and the way national or cultural values are reinterpreted in response to ideas of difference and pluralism. Rich in empirical data, this book will be useful to scholars and researchers of modern and contemporary art, Indian art, art and visual culture, anthropology, art history, mobility, and transcultural studies.

## **Road Maintenance Management**

Market\_Desc: Civil Engineers Special Features: · Incorporates expanded coverage of intersection sight distance, basics of signal timing, interchange design, and the current state of the highway profession· Integrates new sample FE exam questions to better prepare engineers· Includes the latest specifications for highway design and traffic engineering· Highlights common mistakes throughout the chapters to arm engineers with expert insight· Provides new examples that show how the material is applied on the job About The Book: There is more demand than ever for highway engineers due to new highway projects throughout the country. This new fourth edition provides interested engineers with the information needed to solve the highway-related problems that are most likely to be encountered in the field. It includes updated coverage on intersection sight distance, basics of signal timing, and interchange design. New sample FE exam questions are also presented throughout the chapters. Engineers will not only learn the important principles but they'll also be better prepared for the civil engineering exams.

## **Civil Engineering Materials**

This book provides an up-to-date description of road maintenance management. Written primarily from a management perspective, it provides new insights into the relationship between the various functions involved in managing a modern road network. It has been developed based on the experience of project work in this field carried out in a number of countries. The text provides a framework for considering aspects of management, such as policy formulation, network considerations, staff responsibilities, level of data detail, cost estimating methods, and others, that relate to four basic management functions: planning, programming, preparation, and operations.

## **Highway Planning, Survey, and Design**

This book helps readers maximize effectiveness in all facets of highway engineering including planning, design, operations, safety, and geotechnical engineering. Highway Engineering: Planning, Design, and Operations features a seven part treatment, beginning with a clear and rigorous exposition of highway engineering concepts. These include project development, and the relationship between planning, operations, safety, and highway types (functional classification). Planning concepts and a four-step process overview are covered, along with trip generation, equations versus rates, trip distribution, and shortest path models equations versus rates. This is followed by parts concerning applications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, and civil engineering topics. Covers traffic flow relationships and traffic impact analysis, collision analysis, road safety audits, advisory speeds Applications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, civil engineering topics Engineering considerations for highway planning design and construction are included, such as hydraulics, geotechnical engineering, and structural engineering

## **Roadwork**

'Transport Planning and Traffic Engineering' is a comprehensive textbook on the relevant principles and practice. It includes sections on transport policy and planning, traffic surveys and accident investigation, road design for capacity and safety, and traffic management. Clearly written and illustrated, the book is ideal reading for students of t

## **A Textbook of Transportation Engineering**

Developing countries in the tropics have different natural conditions and different institutional and financial situations to industrialized countries. However, most textbooks on highway engineering are based on experience from industrialized countries with temperate climates, and deal only with specific problems. Road Engineering for Development (published as Highway and Traffic Engineering in Developing Countries in its first edition) provides a comprehensive description of the planning, design, construction and maintenance of roads in developing countries. It covers a wide range of technical and non-technical problems that may

confront road engineers working in this area. The technical content of the book has been fully updated and current development issues are focused on. Designed as a fundamental text for civil engineering students this book also offers a broad, practical view of the subject for practising engineers. It has been written with the assistance of a number of world-renowned specialist professional engineers with many years experience in Africa, the Middle East, Asia and Central America.

## **HIGHWAY ENGINEERING, 7TH ED**

### **Highway Design and Traffic Safety Engineering Handbook**

Tunnelling provides a robust solution to a variety of engineering challenges. It is a complex process, which requires a firm understanding of the ground conditions as well as the importance of ground-structure interaction. This book covers the full range of areas related to tunnel construction required to embark upon a career in tunnelling. It also includes a number of case studies related to real tunnel projects, to demonstrate how the theory applies in practice. New features of this second edition include: the introduction of a case study related to Crossrail's project in London, focussing on the Whitechapel and Liverpool Street station tunnels and including considerations of building tunnels in a congested urban area; and further information on recent developments in tunnel boring machines, including further examples of all the different types of machine as well as multi-mode machines. The coverage includes: Both hard-rock and soft-ground conditions Site investigation, parameter selection, and design considerations Methods of improving the stability of the ground and lining techniques Descriptions of the various main tunnelling techniques Health and safety considerations Monitoring of tunnels during construction Description of the latest tunnel boring machines Case studies with real examples, including Crossrail's project in London Clear, concise, and heavily illustrated, this is a vital text for final-year undergraduate and MSc students and an invaluable starting point for young professionals and novices in tunnelling.

### **Urban Transit Systems and Technology**

Comprehensive and practical, Pavement Asset Management provides an essential resource for educators, students and those in public agencies and consultancies who are directly responsible for managing road and airport pavements. The book is comprehensive in the integration of activities that go into having safe and cost-effective pavements using the best technologies and management processes available. This is accomplished in seven major parts, and 42 component chapters, ranging from the evolution of pavement management to date requirements to determining needs and priority programming of rehabilitation and maintenance, followed by structural design and economic analysis, implementation of pavement management systems, basic features of working systems and finally by a part on looking ahead. The most current methodologies and practical applications of managing pavements are described in this one-of-a-kind book. Real world up-to-date examples are provided, as well as an extensive list of references for each part.

## **Introduction to Tunnel Construction**

\* Compiles all the data necessary for efficient and cost-effective highway design, building, rehabilitation, and maintenance \* Includes metric units and the latest AASHTO (American Association of State Highway Transportation Officials) design codes

## **Highway Engineering**

Explains best-practices based on a number of successful international case studies.

## **HIGHWAY ENGINEERING (ALL INDIA AE/JE)**

The repair, renovation and replacement of highway infrastructure, along with the provision of new highways, is a core element of civil engineering, so this book covers basic theory and practice in sufficient depth to provide a solid grounding to students of civil engineering and trainee practitioners. Moves in a logical sequence from the planning and economic justification for a highway, through the geometric design and traffic analysis of highway links and intersections, to the design and maintenance of both flexible and rigid pavements Covers geometric alignment of highways, junction and pavement design, structural design and pavement maintenance Includes detailed discussions of traffic analysis and the economic appraisal of projects Makes frequent reference to the Department of Transport's Design Manual for Roads and Bridges Places the provision of roads and motorways in context by introducing the economic, political, social and administrative dimensions of the subject

## **Applied Mechanics and Civil Engineering VI**

Roadwork: Theory and Practice, now in its sixth edition, gives the essential information needed by every road worker, highway technician, incorporated, graduate or chartered engineer, not only by explaining the theory of road construction and its associated activities, but by illustrating its application with practical working methods that are in use in everyday engineering practice. As such, it successfully bridges the gap so often found between civil engineering theory and the day-to-day work of a highways engineer. The authors have drawn from a lifetime of experience in the construction industry and included current design and construction practices.

## **Handbook of Road Ecology**

This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2018). The book covers cutting-edge methods and applications in the field of traffic control, transportation planning, road maintenance, and highway and pavement engineering. Case studies on traffic safety, pedestrian behavior, and highway maintenance and design are also presented in this book. The contents of this book are useful for researchers and practitioners working in transportation and traffic engineering.

## **Highway Engineering Handbook, 2e**

Traffic and Pavement Engineering presents the latest engineering concepts, techniques, practices, principles, standard procedures, and models that are applied and used to design and evaluate traffic systems, road pavement structures, and alternative transportation systems to ultimately achieve greater safety, sustainability, efficiency, and cost-effectiveness. It provides in-depth coverage of the major areas of transportation engineering and includes a broad range of practical problems and solutions, related to theory, concepts, practice, and applications. Solutions for each problem follow step-by-step procedures that include the theory and the derivation of the formulas and computations where applicable. Additionally, numerical methods, linear algebraic methods, and least squares regression techniques are presented to assist in problem solving. Features: Presents coverage of major areas in transportation engineering: traffic engineering, and pavement materials, analysis, and design. Provides solutions to numerous practical problems in traffic and pavement engineering including terminology, theory, practice, computation, and design. Offers downloadable and user-friendly MS Excel spreadsheets as well as numerical methods and optimization tools and techniques. Includes several practical case studies throughout. Utilizes a unique approach in presenting the different topics of transportation engineering. Traffic and Pavement Engineering will help academics and professionals alike to find practical solutions across the broad spectrum of traffic and pavement engineering issues.

## **Pavement Design and Materials**

The repair, renovation and replacement of highway infrastructure, along with the provision of new highways, is a core element of civil engineering, so this book covers basic theory and practice in sufficient depth to provide a solid grounding to students of civil engineering and trainee practitioners. Moves in a logical sequence from the planning and economic justification for a highway, through the geometric design and traffic analysis of highway links and intersections, to the design and maintenance of both flexible and rigid pavements. Covers geometric alignment of highways, junction and pavement design, structural design and pavement maintenance. Includes detailed discussions of traffic analysis and the economic appraisal of projects. Makes frequent reference to the Department of Transport's Design Manual for Roads and Bridges. Places the provision of roads and motorways in context by introducing the economic, political, social and administrative dimensions of the subject.

## **The Indian and Eastern Engineer**

## **Highway Engineering**

Civil Engineering Materials: Introduction and Laboratory Testing discusses the properties, characterization procedures, and analysis techniques of primary civil engineering materials. It presents the latest design considerations and uses of engineering materials as well as theories for fully understanding them through

numerous worked mathematical examples. The book also includes important laboratory tests which are clearly described in a step-by-step manner and further illustrated by high-quality figures. Also, analysis equations and their applications are presented with appropriate examples and relevant practice problems, including Fundamentals of Engineering (FE) styled questions as well those found on the American Concrete Institute (ACI) Concrete Field Testing Technician - Grade I certification exam. Features: Includes numerous worked examples to illustrate the theories presented Presents Fundamentals of Engineering (FE) examination sample questions in each chapter Reviews the ACI Concrete Field Testing Technician - Grade I certification exam Utilizes the latest laboratory testing standards and practices Includes additional resources for instructors teaching related courses This book is intended for students in civil engineering, construction engineering, civil engineering technology, construction management engineering technology, and construction management programs.

## **PRINCIPLES OF TRANSPORTATION ENGINEERING**

A comprehensive, state-of-the-art guide to pavement design and materials With innovations ranging from the advent of Superpave™, the data generated by the Long Term Pavement Performance (LTPP) project, to the recent release of the Mechanistic-Empirical pavement design guide developed under NCHRP Study 1-37A, the field of pavement engineering is experiencing significant development. Pavement Design and Materials is a practical reference for both students and practicing engineers that explores all the aspects of pavement engineering, including materials, analysis, design, evaluation, and economic analysis. Historically, numerous techniques have been applied by a multitude of jurisdictions dealing with roadway pavements. This book focuses on the best-established, currently applicable techniques available. Pavement Design and Materials offers complete coverage of: The characterization of traffic input The characterization of pavement bases/subgrades and aggregates Asphalt binder and asphalt concrete characterization Portland cement and concrete characterization Analysis of flexible and rigid pavements Pavement evaluation Environmental effects on pavements The design of flexible and rigid pavements Pavement rehabilitation Economic analysis of alternative pavement designs The coverage is accompanied by suggestions for software for implementing various analytical techniques described in these chapters. These tools are easily accessible through the book's companion Web site, which is constantly updated to ensure that the reader finds the most up-to-date software available.

### **Highway Engineer and Contractor.**

Market\_Desc: Civil engineers Special Features: · Offers the very latest AASHTO codes and guidelines for highway design, construction, and beautification. · Dr. Wright is widely recognized as an expert in highway safety. About The Book: Comprehensive book focuses solely on highway transportation. Contains treatment of highway administration and planning, evaluation, driver needs, geometric design, the nature of traffic flow and control, pavement design, and an extensive description of how highways are constructed and maintained.

## **Transportation Engineering**

Modern highway engineering reflects an integrated view of a road system's entire lifecycle, including any potential environmental impacts, and seeks to develop a sustainable infrastructure through careful planning and active management. This trend is not limited to developed nations, but is recognized across the globe.

Edited by renowned authority

## **TRANSPORTATION ENGINEERING**

### **Transport Planning and Traffic Engineering**

Highway Bridge Maintenance Planning and Scheduling provides new tactics for highway departments around the world that are faced with the dilemma of providing improved operations on a shoestring budget. Even after the much needed infrastructure funding is received, the question of which project comes first must be answered. Written by a 20-year veteran with the Kansas Department Of Transportation Bridge Office in design and in maintenance, this book provides Senior Bridge Maintenance Engineers with practical advice on how to create an effective maintenance program that will allow them to not only plan, schedule, direct, and monitor highway bridge repair and rehabilitation projects, but also evaluate all completed work for technical acceptability, productivity, and unit-cost standards. Provides the tools and methods for building, maintaining, planning, and scheduling effective maintenance Presents experience-based suggestions for evaluating highway bridges to determine maintenance priorities Includes methods for evaluating all completed work for technical acceptability, productivity, and unit-cost standards

### **The Handbook of Highway Engineering**

Highway Planning, Survey, and Design presents the latest engineering concepts, techniques, practices, principles, standard procedures, and models that are applied and used to design and evaluate alternatives of transportation systems and roadway horizontal and vertical alignments and to forecast travel demand using variety of trip forecasting models to ultimately achieve greater safety, sustainability, efficiency, and cost-effectiveness. It provides in-depth coverage of the major areas of transportation engineering and includes a broad range of practical problems and solutions, related to theory, concepts, practice, and applications. Solutions for each problem follow step-by-step procedures that include the theory and the derivation of the formulas and computations where applicable. Additionally, numerical methods, linear algebraic methods, and least squares regression techniques are presented to assist in problem solving.

Features: Presents coverage of major areas in transportation engineering: urban transportation planning, highway surveying, and geometric design of highways. Provides solutions to numerous practical problems in transportation engineering including terminology, theory, practice, computation, and design. Offers downloadable and user-friendly MS Excel spreadsheets as well as numerical methods and optimization tools and techniques. Includes several practical case

studies throughout. Implements a unique approach in presenting the different topics. Highway Planning, Survey, and Design will help academics and professionals alike to find practical solutions across the broad spectrum of transportation engineering issues.

## **Highway Engineering**

For B.E./B.Tech. & M.E/ M.Tech. Students of Civil Engineering. Also for Practising Engineering and Designers

## **PRINCIPLES OF HIGHWAY ENGINEERING AND TRAFFIC ANALYSIS, 4TH EDITION**

Transportation Engineering: Theory, Practice and Modeling is a guide for integrating multi-modal transportation networks and assessing their potential cost and impact on society and the environment. Clear and rigorous in its coverage, the authors begin with an exposition of theory related to traffic engineering and control, transportation planning, and an evaluation of transportation alternatives that is followed by models and methods for predicting travel and freight transportation demand, analyzing existing and planning new transportation networks, and developing traffic control tactics and strategies. Written by an author team with over thirty years of experience in both research and teaching, the book incorporates both theory and practice to facilitate greener solutions. Contains worked out examples and end of the chapter questions Covers all forms of transportation engineering, including air, rail, and public transit modes Includes modeling and analytical procedures for supporting different aspects of traffic and transportation analyses Examines different transport mode sand how to make them sustainable Explains the economics of transport systems in terms of users' value of time

## **The Big Roads**

India's Transport System has several deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas. The book addresses these issues and it is hoped that the engineering students studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career.

## **Geometric Design of Roads Handbook**

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## **A Text Book on Highway Engineering**

This is the only current and in print book covering the full field of transit systems and technology. Beginning with a history of transit and its role in urban

development, the book proceeds to define relevant terms and concepts, and then present detailed coverage of all urban transit modes and the most efficient system designs for each. Including coverage of such integral subjects as travel time, vehicle propulsion, system integration, fully supported with equations and analytical methods, this book is the primary resource for students of transit as well as those professionals who design and operate these key pieces of urban infrastructure.

## **Highway Engineering**

This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's students in civil engineering. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems, from the perspective of Indian conditions.

## **Along the Indian Highway**

Applied Mechanics and Civil Engineering VI includes the contributions to the 6th International Conference on Applied Mechanics and Civil Engineering (AMCE 2016, Hong kong, China, 30-31 December 2016), and showcases the challenging developments in the areas of applied mechanics, civil engineering and associated engineering practice. The book covers a wide variety of topics: - Applied mechanics and its applications in civil engineering; - Bridge engineering; - Underground engineering; - Structural safety and reliability; - Reinforced concrete (RC) structures; - Rock mechanics and rock engineering; - Geotechnical in-situ testing & monitoring; - New construction materials and applications; - Computational mechanics; - Natural hazards and risk, and - Water and hydraulic engineering. Applied Mechanics and Civil Engineering VI will appeal to professionals and academics involved in the above mentioned areas, and it is expected that the book will stimulate new ideas, methods and applications in ongoing civil engineering advances.

## **Principles, Practice and Design of Highway Engineering**

Discover the twists and turns of one of America's great infrastructure projects with this "engrossing history of the creation of the U.S. interstate system" (Los Angeles Times). It's become a part of the landscape that we take for granted, the site of rumbling eighteen-wheelers and roadside rest stops, a familiar route for commuters and vacationing families. But during the twentieth century, the interstate highway system dramatically changed the face of our nation. These interconnected roads—over 47,000 miles of them—are man-made wonders, economic pipelines, agents of sprawl, uniquely American symbols of escape and freedom, and an unrivaled public works accomplishment. Though officially named after President Dwight D. Eisenhower, this network of roadways has origins that reach all the way back to the World War I era, and *The Big Roads*—"the first thorough history of the expressway system" (The Washington Post)—tells the full story of how they came to be. From the speed demon who inspired a primitive web of dirt auto trails to the largely forgotten technocrats who planned the system

years before Ike reached the White House to the city dwellers who resisted the concrete juggernaut when it bore down on their neighborhoods, this book reveals both the massive scale of this government engineering project, and the individual lives that have been transformed by it. A fast-paced history filled with fascinating detours, "the book is a road geek's treasure—and everyone who travels the highways ought to know these stories" (Kirkus Reviews).

## **Road Engineering for Development**

### **Pavement Drainage: Theory and Practice**

### **Highway Engineering**

Explore the Art and Science of Geometric Design The Geometric Design of Roads Handbook covers the design of the visible elements of the road—its horizontal and vertical alignments, the cross-section, intersections, and interchanges. Good practice allows the smooth and safe flow of traffic as well as easy maintenance. Geometric design is covered in depth. The book also addresses the underpinning disciplines of statistics, traffic flow theory, economic and utility analysis, systems analysis, hydraulics and drainage, capacity analysis, coordinate calculation, environmental issues, and public transport. Background Material for the Practicing Designer A key principle is recognizing what the driver wishes to do rather than what the vehicle can do. The book takes a human factors approach to design, drawing on the concept of the "self-explaining road." It also emphasizes the need for consistency of design and shows how this can be quantified, and sets out the issues of the design domain context, the extended design domain concept, and the design exception. The book is not simply an engineering manual, but properly explores context-sensitive design. Discover and Develop Real-World Solutions Changes in geometric design over the last few years have been dramatic and far-reaching and this is the first book to draw these together into a practical guide which presents a proper and overriding philosophy of design for road and highway designers, and students. This text: Covers the basics of geometric design Explores key aspects of multimodal design Addresses drainage and environmental issues Reviews practical standards, procedures, and guidelines Provides additional references for further reading A practical guide for graduate students taking geometric design, traffic operations/capacity analysis, and public transport, the Geometric Design of Roads Handbook introduces a novel approach that addresses the human aspect in the design process and incorporates relevant concepts that can help readers create and implement safe and efficient designs.

### **Highway Bridge Maintenance Planning and Scheduling**

An International Textbook, from A to Z Highway Engineering: Pavements, Materials and Control of Quality covers the basic principles of pavement management, highlights recent advancements, and details the latest industry standards and techniques in the global market. Utilizing the author's more than 30 years of teaching, researching, and consulting e

## **Advances in Transportation Engineering**

This is the first ever text-cum-reference book in India on “Bituminous Road Construction”. It includes references to the codes and specifications of the Indian Roads Congress and the Bureau of Indian Standards, besides the international standards such as ASTM and AASHTO. This book provides a thorough knowledge of bituminous road construction such as bitumen; aggregate; mix design; special mixes, for example, stone matrix asphalt, warm mix asphalt, and ready-made pothole mix; structural design of flexible pavements; asphalt production and construction; distresses in asphalt pavements; maintenance and rehabilitation of asphalt pavements including recycling; and interesting investigations of premature failure of asphalt pavements across the world. It includes numerous simple, practical and illustrative examples, and a large number of photographs for easy comprehension of the subject matter. This book has been designed to serve as a text for the undergraduate and postgraduate students of Civil Engineering for the courses on: Highway Materials including Testing Laboratory; Asphalt Mix Design; Highway Construction and Maintenance; Highway Pavement Failures; and Design of Flexible Pavements. Since over 95% of highways have bituminous surface, this book is also an ideal reference book for thousands of practicing highway engineers who are engaged in the most ambitious highway construction programme ever in India. Cutting-edge technology on bituminous road construction included in the book helps M.Tech and Ph.D. students in conducting research in this field and prepares them to implement their knowledge in real-life practice.

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