

## **Highway Engineering**

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### **Product Description**

This book on Highway Engineering shall be useful for B.E./B. Tech & M.E/ M. Tech students of Civil Engineering. It shall also be useful for practicing Engineering and designers.



#### **Table of Contents**

Chapter 1: Development of Highways. Chapter 2: Highway Administration and Finance. Chapter 3: Road User and the Vehicle. Chapter 4: Geometric Design. Chapter 5: Design Surveys, Soils and Aggregates, Investigations and Tests. Chapter 6: Design, Drawing, Estimates and Projects Report. Chapter 7: Economic Evaluation of Highway Projects. Chapter 8: Embankment Design and Construction. Chapter 9: Types of Pavements and Factors Governing Pavement Design. Chapter 10: Pavement Materials. Chapter 11: Design of Flexible Pavements.

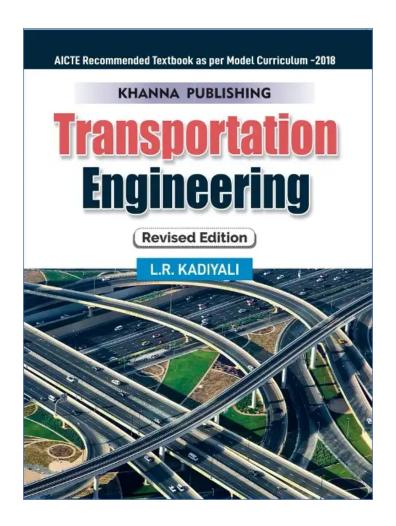
Chapter 12: Rigid Pavements. Chapter 13: Soil Stabilization. Chapter 14: Granular Sub-Bases, Bases and Surface Courses. Chapter 15: Brick, Stone and Cement Concrete Block Pavements. Chapter 16: Hill Roads.

Chapter 17: Rural Roads (Low Volume Roads). Chapter 18: Urban Roads Chapter 19: Expressways Chapter 20: Toll Roads. Chapter 21: Desert Roads. Chapter 22: Roads in Swampy and Water-Logged Areas and in Black Cotton Soils. Chapter 23: Road Construction Machinery. Chapter 24: Road Construction Programming and Management. Chapter 25: Highway Drainage. Chapter 26: Cross-Drainage Structures. Chapter 27: Road Accident and Highway Design. Chapter 28: Road Signs. Chapter 29: Road Markings. Chapter 30: Traffic Signals. Chapter 31: Highway Safety Appurtenances. Chapter 32: Highway Maintenance. Chapter 33: Pavement Evaluation. Chapter 34: Overlay Design and construction. Chapter 35: Use of Geosynthetics. Chapter 36: Environmental, Landscaping and Arboriculture. Chapter 37: Airport Engineering.

#### **Author**

**Dr. L. R. Kadiyali** is B.E.(Hons.), from Bombay and pursued Ph.D. from Kakatiya University. He has done P.G. diploma in Highway and Traffic Engineering from Newcastle-Upon-Tyne. He is Formerly Chief Engineer, (Roads Wig), Ministry of Road Transport & Highways, New Delhi and Study Director, Road User Coast Study, Central Road Research Institute New Delhi.





## **Transportation Engineering**

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### **Product Description**

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. This book has been designed keeping in mind the latest syllabi of all major Indian Universities.



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#### SECTION-1: TRANSPORTATION SYSTEMS AND PLANNING

**Chapter 1:** Introduction.

**Chapter 2:** Role of Transport in Society.

**Chapter 3:** Modes of Transport and Criteria for Choice.

**Chapter 4:** Transport Planning.

**SECTION-2: HIGHWAY ENGINEERING** 

**Chapter 5:** History of Growth of Highways.

**Chapter 6:** Development of Roads in India After Independence.

**Chapter 7:** Geometric Design.

**Chapter 8:** Surveys, Investigations and Project Preparation.

Chapter 9: Embankment Design and Construction.

**Chapter 10:** Highway Drainage.

**Chapter 11:** Cross Drainage Structures.

Chapter 12: Types of Pavements and Factors Governing Pavement Design.

**Chapter 13:** Design of Flexible Pavement.

Chapter 14: Design of Rigid Pavements.

**Chapter 15:** Pavement Materials.

**Chapter 16:** Construction of Pavements.

**Chapter 17:** Maintenance of Highways.

**Chapter 18:** Use of Geosynthetics in Highway Engineering.

**Chapter 19:** Urban Roads.

Chapter 20: Hill Roads.

**Chapter 21:** Road in Desert Areas.

Chapter 22: Toll Roads.

**Chapter 23:** Quality Assurance.

**Chapter 24:** Highway Administration and Finance.

**Chapter 25:** Traffic Engineering.



# K H A N N A B O O K S . C O M

#### **Author**

**Dr. L. R. Kadiyali** is B.E.(Hons.), from Bombay and pursued Ph.D. from Kakatiya University. He has done P.G. diploma in Highway and Traffic Engineering from Newcastle-Upon-Tyne. He is Formerly Chief Engineer, (Roads Wig), Ministry of Road Transport & Highways, New Delhi and Study Director, Road User Coast Study, Central Road Research Institute New Delhi.

