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# Scope

For the design the construction of highway and airfield, it is imperative to carry out tests on construction materials for their scientific designing and even this utilization. The inherent strength of construction depends upon the maximum use of local materials. The prime objective of the different tests is to know and classify the various material into different groups depending upon their physical and strength or stability characteristics.

Different types of pavements are constructed on roads for the safe and comfortable movements of various types of vehicles at the desired speed. All these pavements are laid over a prepared soil surface called subgrade. Therefore it is necessary first to test the properties of the subgrade soil and to indicate its supporting capacity under the various moisture conditions, before taking up the design and construction of the pavements. The tests are needed on the subgrade soil for this purpose are for the classification and identification of the soil, its density and compaction characteristics. It is also necessary to determine the strength characteristics of the subgrade for the design of pavements. Some of the important tests on subgrade soil are given in Part I of this book.

Pavements are classified into two major groups as flexible and rigid. The pavement sections which do not fall in any one of these types, are being classified as semi-rigid or semi-flexible. Depending upon the technique and the material of construction, the pavements are classified as (i) Water Bound Macadam (ii) Bituminous (iii) Concrete Concrete and (iv) Soil Stabilized. In most of the construction techniques, some aggregates are commonly used. The suitability of road stones are judged by studying their resistance against impact, abrasion, crushing and weathering action. The other properties of aggregates which are important are their shape factor, specific gravity, water absorption, relative density with bitumen, etc. The important tests on aggregates for use as pavement material have been presented in Part II of this book.

In preparing bituminous mix, the aggregates are bound together in a pavement component layer with binding agents like bitumen or other bituminous materials like emulsion, cutback, bitumen and tar (and Portland cement). These the tests on these binders are also carried out. The use of bituminous pavements for streets, highways and airports has increased quite rapidly during the last few decades. With the development of pavement industry in India, much thought has been available for utilization. Physical tests like penetration, softening, softening point, bulk flow point etc., are in use in classifying and testing of bituminous materials. Viscosity test is also included in recent years for defining the materials for their scientific use. Part III of this book deals with tests on bituminous materials.

Bituminous mixes are used in the surface course of pavements, some types of bituminous mixes are also used in the base course of some flexible pavements. These paving mixes are to be designed to withstand the varying conditions of climate and traffic. There are several methods of bituminous mix design. Two of the most common methods are given in Part IV of this book.

Tests on cement and cement concrete mixes are not included as these are extensively dealt within cement technology through many standard publications.

Most of the tests on soil, aggregates, bituminous materials and mixes are standardized in different countries by different agencies/committees. The test methods, details and specifications given in this book are based on those given by the Indian Standards Institute (ISI) and the Indian Roads Congress (IRC) wherever in the case of tests not covered by the ISI or IRC, the specifications and recommendations of other standard organizations like the British Standards Institution, American Society for Testing Materials, Asphalt Institute, etc. have been followed.

## Preface to the first edition

Different educational institutions in India have now developed their syllabus wherein testing of highway materials have been included. Almost an urgent need of suitable laboratory manual has been felt. This book though particularly designed for engineering students, those with the relative tests that the field engineers engaged in paving jobs may also need to have it.

In preparing this manual, writers have extensively used the publications of ISI, IRC, AITRA, and Asphalt Institute. The help received from these publications is therefore gratefully acknowledged here.

Roodee (S.P.)  
 January 1, 1960

## Preface to the third edition

In this edition, the book has been revised in general and numerous revisions have been made by including new experiments like North Dakota Cone Test for subgrade soils, tests for J. and E. and tests for determining value of Road Aggregate. Latest recommendations of the Indian Roads Congress have been included. It is hoped that this revised third edition will prove more useful to the students, teachers and the practicing engineers. The assistance rendered by Dr. S. Venkatesh is gratefully acknowledged.

Roodee (S.P.)  
 April 25, 1975

## Preface to the fourth edition

A new experiment, Field Density Test has been added in this edition under Part I of the book. More revisions have been made in several other tests, their discussion and applications.

November 14, 1980

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# Lab Manual Justo Khanna

**B Lingard**



**Lab Manual Justo Khanna:**

The book delves into Lab Manual Justo Khanna. Lab Manual Justo Khanna is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Lab Manual Justo Khanna, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Lab Manual Justo Khanna
- Chapter 2: Essential Elements of Lab Manual Justo Khanna
- Chapter 3: Lab Manual Justo Khanna in Everyday Life
- Chapter 4: Lab Manual Justo Khanna in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Lab Manual Justo Khanna. This chapter will explore what Lab Manual Justo Khanna is, why Lab Manual Justo Khanna is vital, and how to effectively learn about Lab Manual Justo Khanna.
3. In chapter 2, this book will delve into the foundational concepts of Lab Manual Justo Khanna. The second chapter will elucidate the essential principles that need to be understood to grasp Lab Manual Justo Khanna in its entirety.
4. In chapter 3, this book will examine the practical applications of Lab Manual Justo Khanna in daily life. This chapter will showcase real-world examples of how Lab Manual Justo Khanna can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Lab Manual Justo Khanna in specific contexts. This chapter will explore how Lab Manual Justo Khanna is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Lab Manual Justo Khanna. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Lab Manual Justo Khanna.

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