

First Edition 1960  
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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 using this information. 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 fail 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, sizes, specific gravity, water absorption, relative efficiency 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 suitable materials like emulsion, cutback, bitumen and tar (oil) 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 should be available for utilization. Physical tests like penetration, softening, softening point, bulk specific gravity, 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 recent concrete 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 Committee (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.

Roorkee (U.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 stripping value of Road Aggregates. 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. B. Trivedi is gratefully acknowledged.

Roorkee (U.P.)  
 April 26, 1977

## 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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# Khanna Jasto Transportation Lab Manual

**Robert R. Redfield**



**Khanna Jasto Transportation Lab Manual:**

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