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Singer

For the design the construction of highway and airfield, it is imperative to carry out tests on construction materials for their scientific designing and cost-minimum. The inherent economy in construction depends upon the maximum use of local materials. The prime objective of the different tests is to know and classify the processed material from different group depending upon their physical and strength or stability characteristics.

Different types of pavements are constructed at a rate for the soft and medium-strength materials of various types of subgrade at the desired speed. All these pavements are laid over a prepared soil surface and surface subgrade. Therefore it is necessary first to test the properties of the subgrade soil and to conduct its supporting capacity tests. The basic tests needed on the subgrade soil for the design are for the classification and classification of the soil, its density and compressive 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 2 of this book.

Parameters are classified into two major groups as *facilitative* and *rigid*. The parameter sections which do not fall in any one of these types, are being classified as semi-rigid or semi-facilitative. Depending upon the technique and the material of construction, the parameters are divided into three broad categories: (a) *Structural* (fill, concrete, cement, and steel), (b) *Geotechnical* (fill, soil, and rock), and (c) *Behavioral* (fill, concrete, cement, and steel). The study of road stones are judged by studying their resistance against crushing, abrasion, crushing, and weathering action. The other properties of aggregates which are important are their shape factor, 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 this document, the aggregates are listed together in a prominent component type with binding agents in the category of miscellaneous materials. The various types of binders and the various types of aggregates are listed in the miscellaneous materials section. The use of these materials for concrete, highways and airports has increased quite rapidly during the last few decades. With fast developing petroleum industry in India, more bituminous materials would be available for utilization. Physical tests like penetration, ductility, softening point, flash fire 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 asphaltic use. Part III of this book deals with some bituminous materials.

Interimaneous prints are used in the surface course of pavement, and some types of Interimaneous prints 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 Interimaneous mix design. Two of the more common methods are given in Part IV of the book.

There are several additional comments that are not included as there are extremely difficult within current manuscript technology through many standard publications.

Values of the tests are listed, respectively, for the various materials and are presented in different columns for different apparatus/instruments. The test methods used and equipment used in this study are listed on sheets given by the Indian Standards Committee (1970) and the Indian Bureau of Standards (1970) in the case of tests not covered by the ISI or BSI, the specifications and nomenclatures of other standard organizations (like the British Standards Institution, American Society for Testing Materials, Applied Mechanics, etc.) have been followed.

Preface to the first edition

Different educational institutions in India have now developed their syllabi wherein testing of highway materials have been included. There is an urgent need of suitable laboratory material has been felt. This book though particularly designed for engineering students, deals with the routine tests that the field engineers engaged in paving jobs may also need to know too.

In preparing this manual, authors have extensively used the publications of IIA, ILO, AITAC, and Appleby Institute. The help received from these organizations is gratefully acknowledged here.

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Preface to the third edition

In this edition, the text has been revised in general and numerous corrections have been made by including the comments of the following: Barbara Christ, Tina Houtgast, John, and Jan Filler and Susan and Peter de Groot. The Department of Education's recommendations of the Indian Studies Group have been included. It is noted that this revised third edition will prove most useful to the students, teachers and the publishing programs. The manuscript submitted by Mrs. J. Houtgast is thankfully acknowledged.

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Preface to the fourth edition

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

Received 12 May 2004; accepted 12 May 2004

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Comments

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