

<<DL/T 5102 - 1999 土工 >>

图书基本信息

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前言

This Standard is compiled according to the arrangement of Notice on Printing the Development and Revision Plan of Professional Standards (Document No. 28, 1998) issued by the former Ministry of Electric Power. Geotechnical centrifugal model test is a new technology. It can visually and correctly reveal the engineering characters of the soils, provide the basis for the design and construction, and verify the service condition of the structures. It is also be used as a method for fundamental research. This technology has been widely applied in many countries. Since 1980s, lots of academic institutes and universities in China have established their own centrifuge modeling laboratories which have provided valuable data for design and construction of many key projects. In addition, important research results have been achieved with respect to fundamental research. Centrifugal model test is complicated in the aspects of equipment, measuring instrument, model preparation, data and video acquisition, etc.. Nevertheless, it is vital to ensure the safety of test and to avoid accidents. It is necessary to develop operation procedure and requirement in order to ensure the reliability of the test data and safety operation of equipment and instrument. So this Standard is formulated.

内容概要

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Geotechnical centrifugal model test is a new technology. It can visually and correctly reveal the engineering characters of the soils , provide the basis for the design and construction , and verify the service condition of the structures. It is also be used as a method for fundamental research. This technology has been widely applied in many countries. Since 1980s , lots of academic institutes and universities in China have established their own centrifuge modeling laboratories which have provided valuable data for design and construction of many key projects. In addition , important research results have been achieved with respect to fundamental research. Centrifugal model test is complicated in the aspects of equipment , measuring instrument , model preparation , data and video acquisition , etc.. Nevertheless , it is vital to ensure the safety of test and to avoid accidents. It is necessary to develop operation procedure and requirement in order to ensure the reliability of the test data and safety operation of equipment and instrument. So this Standard is formulated.

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章节摘录

插图：6.0.1 Prior to model preparation, the design data of the prototype shall be analyzed, e.g., boundary condition, material properties and the research purpose, etc.. Based on these analyses, the general outline of test, time duration of each test, and model design documents (model materials, scaling factor, acceleration, distribution of measuring points, and number of tests) shall be made. The participants in test shall have certificates. 6.0.2 Generally the physical and mechanical properties of the model materials shall be identical with those of the prototype materials; these properties include density, water content, compressibility and strength, etc.. For coarse-grained soils, model shall be prepared in accordance with the regulations in SL 237 — 1999; if there are difficulties in using the prototype materials, similar materials may be allowed to replace the prototype materials while the replacement shall be justified by test and be in accordance with the requirement of scaling law. The physical and mechanical properties of similar materials shall be identical with or similar to those of the prototype materials.

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