

<<水工混凝土配合比设计规程>>

图书基本信息

书名：<<水工混凝土配合比设计规程>>

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内容概要

During the compiling process, this Standard not only absorb some relevant contents in the similar domestic and international standards that are suitable for the application of hydraulic concrete in China, but also emphasizes the characteristics of mass hydraulic concrete. With the advancement of hydraulic concrete technology, the use of admixtures and additives has become more and more popular, and widespread attentions have been paid to the durability of concrete. Therefore, changes of stipulations in this Standard are more focused on the use of admixtures, and additives and the durability of concrete.

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6 Selection of Basic Parameters for Mix Design
6.1 water-cementitious material ratio
6.1.1 The water-cementitious material ratio shall be determined by test according to the design requirements for the concrete strength, and shall comply with the stipulations in DL/T 5144.
6.1.2 The water-cementitious material ratio shall also meet the design requirements of impermeability and frost resistance grade. The impermeability and frost resistance grades are related to types of cement, water-cementitious material ratio, types and contents of admixtures and additives, curing age and so on. For the large and medium projects, the relevant curve shall be established by test and the water-cementitious material ratio should be determined according to the test result and meet the requirements of the designed technical indices. If test data are not available, the water-cementitious material ratio for anti-freezing concrete should be determined according to the stipulations in DL / T 5082, based on frost resistance grade and the maximum aggregate size.
6.1.3 For the concrete mixed with additives, the maximum water-cementitious material ratio shall be lowered appropriately and determined by test.

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