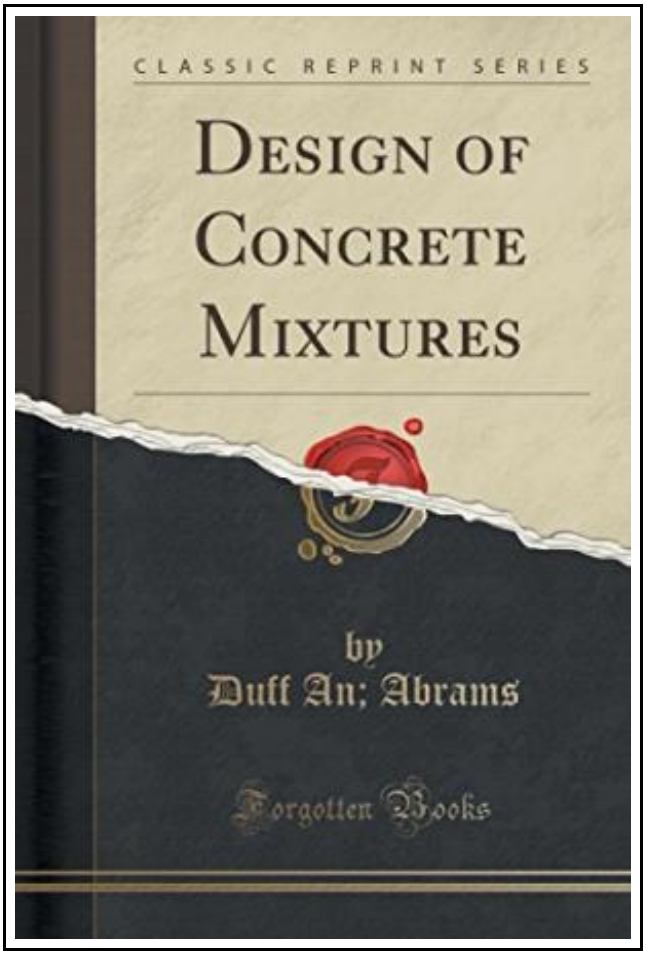
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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Design of Concrete Mixtures During the past three years a large number of investigations have been under way at the Structural Materials Research Laboratory, Lewis Institute, Chicago, which throw considerable new light on the subject of proportioning concrete. These investigations are being carried out through the cooperation of the Institute and the Portland Cement Association.- These studies have covered an investigation of the inter-relation of the following factors: 1. The consistency (quantity of mixingwater). 2. The size and grading of aggregates. 3. The mix (proportion of cement). Any comprehensive study of proportioning concrete must take into account all of these factors. During this period about 50,000 tests have been carried out which have a bearing on this subject. These tests have been largely confined to compression tests of concrete and mortars. These investigations have given us a new insight into the factors which underlie the correct proportioning of concrete mixtures and show the limitations of older methods. Certain phases of these investigations are still under way. The following may be mentioned as among the most important principles which have been established with reference to the design of concrete mixtures. In a brief report of this kind it is impracticable to present more than an outline of the methods of applying the principles to practical problems. In only a few instances are experimental data given on which these conclusions are based. 1. With given concrete materials and conditions of test the quantity of mixing water used determines the strength of the concrete, so long as the mix is of a workable plasticity. 2. The sieve analysis furnishes the only correct basis for proportioning aggregates in concrete...

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