

This is a set of four books comprising of the following:

Book -1

ICI Recommendation on

TEST METHOD FOR THE FLEXURAL STRENGTH AND TOUGHNESS PARAMETERS OF FIBER REINFORCED CONCRETE

This standard provides guidelines for evaluating the flexural strength and flexural toughness of fibre reinforced concrete through tests under displacement control, in the third point loading configuration, of (un-notched) moulded specimens. This testing method is intended for fibres that are not longer than 60mm. The method can also be used for a combination of fibres of same or different materials.

Book – 2

ICI Recommendation on

SPECIFICATIONS FOR REFERENCE CONCRETES TO BE USED FOR EVALUATING FIBRES FOR CONCRETE REINFORCEMENT

These guidelines specify the composition and characteristics of reference concretes used to evaluate the performance of fibres in concrete.

The reference concretes considered are of three types:

- i. Mandatory reference concrete.
- ii. Optional reference concrete.
- iii. Specified reference concrete by the purchaser or user of the fibre.

The fibre manufacturer, purchaser or user can be have the fibres tested with mandatory and optional reference concretes. The end users may additionally need to satisfy themselves about the effectiveness of the fibre in their (own and /or) specified reference concrete. Along with references to documents, optional references have been indicated.

Book - 3

ICI Recommendation on

DEFINITIONS, SPECIFICATIONS AND CONFORMITY REQUIREMENTS FOR STEEL FIBRES TO BE USED AS CONCRETE REINFORCEMENT

This recommendation specifies the requirements for steel fibres intended for use in all types of concrete, mortar and grout, including sprayed concrete or shotcrete, flooring, pavements, precast and repair concretes and reinforced refractory material. This recommendation provides for definitions and symbols, classification and codes, dimensions, weights and permissible variations, inspection methods, packing, delivery and storage.

Book - 4

ICI Recommendation on

DEFINITIONS, SPECIFICATIONS AND CONFORMITY REQUIREMENTS FOR POLYMERIC FIBRES TO BE USED AS CONCRETE REINFORCEMENT

This recommendation specifies requirements for polymeric fibres intended for use in all types of concrete, mortar and grout, including sprayed concrete or shotcrete, flooring, pavements and precast, in-situ and repair concretes. This recommendation provides for definitions and symbols, classification and codes, dimensions, weights and permissible variations, inspection methods, packing, delivery and storage.