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Nota di contenuto	Materials with Rheological Properties; Table of Contents; Chapter 1. Introduction; 1.1. Historical background; 1.2. Considering the plastic and rheological properties of materials in calculating and designing resistance structures for constructions; 1.3. The basis of the mathematical model for calculating resistance structures by taking into account the rheological properties of the materials; Chapter 2. The Rheological Behavior of Building Materials; 2.1. Preamble; 2.2. Structural steel for construction; 2.2.1. Structural steel for metal construction 2.2.2. Reinforcing steel (non-prestressed)2.2.3. Reinforcements, steel wire and steel wire products for prestressed concrete; 2.3. Concrete; Chapter 3. Composite Resistance Structures with Elements Built from Materials Having Different Rheological Properties; 3.1. Mathematical model for calculating the behavior of composite resistance structures: introduction; 3.2. Mathematical model for calculating the behavior of

composite resistance structures. The formulation considering creep; 3.2.1. The effects of the long-term actions and loads: overview 3.2.1.1. Composite structures with discrete collaboration3.2.1.2. Composite structures with continuous collaboration; 3.2.1.3. Composite structures with complex composition; 3.2.2. The effect of repeated short-term variable load actions: overview; 3.3. Mathematical model for calculating the behavior of composite resistance structures. The formulation considering stress relaxation; 3.3.1. The effect of long-term actions and loads: overview; 3.3.1.1. Composite structures with discrete collaboration; 3.3.1.2. Composite structures with continuous collaboration
3.3.1.3. Composite structures with complex composition3.3.2. The effect of repeated short-term variable actions and loads: overview; 3.4. Conceptual aspects of the mathematical model of resistance structure behavior according to the rheological properties of the materials from which they are made; Chapter 4. Applications on Resistance Structures for Constructions; 4.1. Correction matrix; 4.1.1. The displacement matrix of the end of a perfectly rigid body due to unit displacements successively applied to the other end of a rigid body
4.1.2. The reaction matrix of the end of a perfectly rigid body due to unit forces successively applied to the other end of a rigid body4.2. Calculation of the composite resistance structures. Formulation according to the creep; 4.2.1. Preliminaries necessary to systematize the calculation of composite structures in the formulation according to the creep; 4.2.2. Composite structures with discrete collaboration; 4.2.3. Composite structures with continuous collaboration; 4.2.4. Composite structures with complex composition
4.3. The calculation of composite resistance structures. Formulation according to the stress relaxation

Sommario/riassunto

Materials with Rheological Properties presents the evolution of the mathematical models used to calculate the resistance structures and the conditions which enable progress to be made in this field. The author presents equations describing the behavior of each possible type of resistance structure (with discrete collaboration, continuous collaboration and complex composition). These equations are then redefined in the particular concrete form for each type of structure, by using the notions and known parameters from the construction's statics. The mathematical models are then tested u

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