



Simulation of Fresh Concrete Flow: State-of-the-Art Report of the RILEM Technical Committee 222-SCF (RILEM State-of-the-Art Reports)

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This work deals with numerical simulations of fresh concrete flows. After the first introductory chapter dealing with the various physical phenomena involved in flows of fresh cementitious materials, the aim of the second chapter is to give an overview of the work carried out on simulation of flow of cement-based materials using computational fluid dynamics (CFD). This includes governing equations, constitutive equations, analytical and numerical solutions, and examples showing simulations of testing, mixing and castings. The third chapter focuses on the application of Discrete Element Method (DEM) in simulating the flow of fresh concrete. The fourth chapter is an introductory text about numerical errors both in CFD and DEM whereas the fifth and last chapter give some recent examples of numerical simulations developed by various authors in order to simulate the presence of grains or fibers in a non-Newtonian cement matrix.

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