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In this work we model the time dependent carbonation process of a concrete by using the Chemical Reaction Engineering Module of Comsol Multiphysics. The carbonation reaction is set up in the Reaction Engineering interface, then we use the Generate Space-Dependent Model feature tool to export the properties to the Transport of Diluted Species physics.

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model for concrete viscoelasticity is based on Kelvin chains. COMSOL flexibility has allowed building a brand new mathematical model, exploiting equation-based modeling capabilities. The generalized Kelvin model consists of an elastic spring to represent the instantaneous stiffness plus n Kelvin-Voigt

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