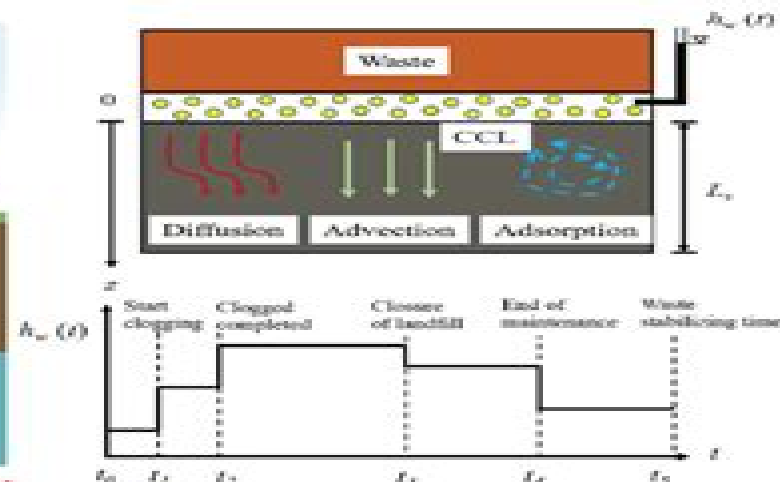


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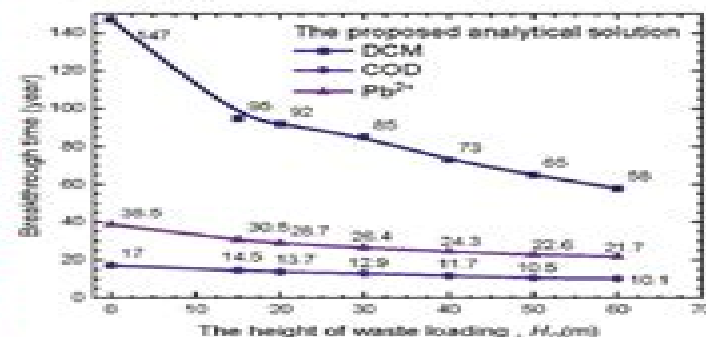
Contaminant transport equation

$$R_d \frac{\partial c_s(z, t)}{\partial t} = D_s \frac{\partial^2 c_s(z, t)}{\partial z^2} - \frac{k_s h_w(t)}{n L_s} \frac{\partial c_s(z, t)}{\partial z}$$

Analytical solution

$$c_s(z, t) = c_0 + \frac{e^{-\frac{2xv_s + v_s^2 t}{4D}}}{\sqrt{4\pi Dt}} \omega(z, t)$$

$$\omega(z, t) = \int_0^\infty [\theta_{s,d}(z) - \theta_{s,d}(0)] \left[e^{\frac{v_s x}{2D} - \frac{(z-x)^2}{4D\tau}} - e^{\frac{v_s x}{2D} - \frac{(z+x)^2}{4D\tau}} \right] dx$$



Numerical Methods In Geomechanics

**António S. Cardoso, José L.
Borges, Pedro A. Costa, António T.
Gomes, José C. Marques, Castorina S.
Vieira**

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Numerical Methods in Geotechnical Engineering Thomas Benz, Steinar Nordal, 2010-05-25 Numerical Methods in Geotechnical Engineering contains 153 scientific papers presented at the 7th European Conference on Numerical Methods in Geotechnical Engineering NUMGE 2010 held at Norwegian University of Science and Technology NTNU in Trondheim Norway 2 4 June 2010 The contributions cover topics from emerging research to engineering practice

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Numerical Methods in Geotechnical Engineering IX, Volume 1 Manuel de Matos Fernandes, 2018-06-22 NUMGE 2018 is the ninth in a series of conferences on Numerical Methods in Geotechnical Engineering organized by the ERTC7 under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE The first conference was held in 1986 in Stuttgart Germany and the series continued every four years 1990 Santander Spain 1994 Manchester United Kingdom 1998 Udine Italy 2002 Paris France 2006 Graz Austria 2010 Trondheim Norway 2014 Delft The Netherlands The conference provides a forum for exchange of ideas and discussion on topics related to numerical modelling in geotechnical engineering Both senior and young researchers as well as scientists and engineers from Europe and overseas are invited to attend this conference to share and exchange their knowledge and experiences This work is the first volume of NUMGE 2018

Numerical Methods in Geomechanics J.B. Martins, 1982-09-30

Proceedings of the NATO Advanced Study Institute Braga Portugal August 24 September 4 1981 **Numerical Methods in Geomechanics**, 1976 **Numerical Methods in Geomechanics** Chandrakant S. Desai, 1976 **Numerical Methods in Geomechanics: Main lectures, Special presentations, List of conference participants, Errata** Z. Eisenstein, 1982

Numerical Methods in Geotechnical Engineering IX, Volume 2 António S. Cardoso, José L. Borges, Pedro A. Costa, António T. Gomes, José C. Marques, Castorina S. Vieira, 2018-06-27 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering NUMGE2018 Porto Portugal 25 27 June 2018 The papers cover a wide range of topics in the field of computational geotechnics providing an overview of recent developments on scientific achievements innovations and engineering applications related to or employing numerical methods They deal with subjects from emerging research to engineering practice and are grouped under the following themes Constitutive modelling and numerical implementation Finite element discrete element and other numerical methods Coupling of diverse methods Reliability and probability analysis Large deformation large strain analysis Artificial intelligence and neural networks Ground flow thermal and coupled analysis Earthquake engineering soil dynamics and soil structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns and pipelines Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the objectives of previous eight thematic conferences 1986 Stuttgart Germany 1990 Santander Spain 1994 Manchester United Kingdom 1998 Udine Italy 2002 Paris France 2006 Graz Austria 2010 Trondheim Norway 2014 Delft The Netherlands Numerical Methods in Geotechnical Engineering IX updates the state of the art regarding the application of numerical methods in geotechnics both in a scientific perspective and in what concerns its application for solving practical boundary value problems The book will be much of interest to engineers academics and professionals involved or interested in Geotechnical Engineering This is volume 2 of the NUMGE 2018 set

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mechanical interaction between groundwater and surrounding ground **Advances in Discontinuous Numerical Methods and Applications in Geomechanics and Geoengineering** Jian Zhao,Yuzo Ohnishi,Gao-Feng Zhao,Takeshi Sasaki,2012-01-27 Rocks and soils can behave as discontinuous materials both physically and mechanically and for such discontinuous nature and behaviour there remain challenges in numerical modelling methods and techniques Some of the main discontinuum based numerical methods for example the distinct element method DEM and the discontinuous deformation analysi Numerical Models in Geomechanics G.N. Pande,S. Pietruszczak,1992-01-01 The main objective of the conference was to encourage an exchange of views between researchers and practising engineers on topics relating to the development and application of numerical methods in geotechnical engineering These proceedings include papers by experts in computational geomechanics **Numerical Methods in Geomechanics, Nagoya 1985** Yukikazu Itikawa,1985

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