

Pemodelan fisik aliran air dan transpor pencemar pada media berpori jenuh menggunakan Seepage tank = Physical modelling of flow and contaminant transport through saturated porous media using seepage tank

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Abstrak

Hubungan manusia dan sumberdaya air penting dan saling mempengaruhi satu sama lain. Salah satu peristiwa yang perlu mendapat perhatian adalah kontaminasi air tanah melalui dinding sungai. Makalah skripsi ini mengusulkan suatu protokol untuk memodelkan kejadian tersebut menggunakan seepage tank. Pemodelan ini meliputi aliran air melalui media berpori pada kondisi steady dan unsteady serta transpor pencemar mekanisme adveksi-dispersi yang terjadi akibat point-source loading. Meski demikian, terdapat kekurangan dalam analisa hasil pemodelan ini sehingga dibutuhkan pengembangan yang lebih lanjut.There is a reciprocal interaction between human and groundwater resources in which all components influence each other. Contamination occurred along soilwater interface in a river is an issue that has to be examined. Physical model of flow through porous media and contaminant transport using seepage tank is proposed to help the understanding of the phenomena. This model describes the flow of water through porous media in steady and unsteady condition and also transport of contaminant in advection-dispersion mechanism that happens for point-source loading. Yet, more development is needed to complete the analysis of this model's output.