

[1]余闯,徐江伟,陈樟龙,等.成层土中考考虑衰变作用的污染物迁移规律分析[J].自然灾害学报,2013,01:45-51.

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成层土中考考虑衰变作用的污染物迁移规律分析(PDF)

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Title: Pollutant migration in layered soil with consideration of decay

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摘要: 针对一些有机污染物溶质具有衰变的性质以及土质衬里和地基土等存在着成层性的特点,建立了成层土中考考虑衰变作用的污染物迁移计算模型,采用分离变量法获得了解析解,编制了相应的程序。通过对典型算例的计算,并与经典的GAEA Pollute 软件的计算结果进行了对比分析,两者结果基本一致,证明了所提方法的正确性和可靠性。所提分析方法可供污染物填坑衬里初步设计参考。

Abstract: In view of the decay characteristics of some organic pollutants solute and layered effect of soil liner and ground, a one-dimensional computational model was established to calculate the migration of pollutants in the layered soil with consideration of decay effect. Separation of variables method was used for solving the analytical solution and the corresponding program was compiled. From calculations of a typical example, the results from the classic numerical software GAEA Pollute are consistent with that from the presented method, which proves the validity and reliability of the proposed method. The analytical method proposed can give a reference to preliminary design of landfill liner.

参考文献/REFERENCES

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