

Accepted Manuscript

Probabilistic models for the erosion rate in embankments and reliability analysis of earth dams

Marco Andreini , Paolo Gardoni , Stefano Pagliara , Mauro Sassu

PII: S0951-8320(17)31067-0
DOI: <https://doi.org/10.1016/j.ress.2018.09.023>
Reference: RESS 6274



To appear in: *Reliability Engineering and System Safety*

Received date: 30 September 2017
Revised date: 5 July 2018
Accepted date: 28 September 2018

Please cite this article as: Marco Andreini , Paolo Gardoni , Stefano Pagliara , Mauro Sassu , Probabilistic models for the erosion rate in embankments and reliability analysis of earth dams, *Reliability Engineering and System Safety* (2018), doi: <https://doi.org/10.1016/j.ress.2018.09.023>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Probabilistic models for the erosion parameters and the pipe radius are developed
- A Bayesian approach is used for the treatment of the unknown parameters
- An importance sampling simulation is adopted to calibrate the models
- Fragility curves for the pipe radius rate are determined for a given earth dam

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/11027776>

Download Persian Version:

<https://daneshyari.com/article/11027776>

[Daneshyari.com](https://daneshyari.com)