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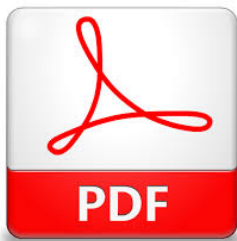
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Abstract

Rapid development of Malaysia has caused population growth in urban areas. This includes new dev



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References:

- [1] S. Panyakaew and S. Feroz, *Energy and Buildings*, vol. 43, pp. 1732-1739, 2011.
- [2] Y. Yan, "Development of natural fibers for technical nonwovens," 2016. <https://doi.org/10.1016/b978-0-08-101610-1.00019-6>
- [3] I. M. Hutten, *Handbook of Nonwoven Filter Media*, Butterworth-Heinemann, 2016. <https://doi.org/10.1016/B978-1-85617-441-1.X5015-X>

- [4] R. Alagirusamy and <https://doi.org/10.15388/15067808570955611y.26> Properties. Fibrous and Composit
- [5] U. Ravishankar and S. <https://doi.org/10.15388/15067808570955611y.26> "Diagnose the Co-Substrate in Agricultural Soils for POCs
- [6] BS 1377 : Part 2 : 1990 <https://doi.org/10.15388/15067808570955611y.26> British Standards Methods of test for Soils for Civil Engineering purposes. Pa
- [7] BS 1377 : Part 4 : 1990 <https://doi.org/10.15388/15067808570955611y.26> British Standards Methods of test for Soils for Civil Engineering purposes. Pa
- [8] BS 1377 : Part 7 : 1990 <https://doi.org/10.15388/15067808570955611y.26> British Standards Methods of test for Soils for Civil Engineering purposes. Pa
- [9] Jabatan Kerja Raya, "Guidelines for Slope Design". Slope Engineering Branch, Public Works Departm
- [10] N. N. Ismail, A. B. Ramli, A. S. N. M. P. A. Eng. (Comp) Design and S. <https://doi.org/10.15388/15067808570955611y.26> "A method of a
[1/jaeds.v1i1.28](https://doi.org/10.15388/15067808570955611y.26)
- [11] H. X. Lan, C. F. Lee, <https://doi.org/10.15388/15067808570955611y.26> Zhong & C. D. D. M. S. D. Dynamic Char