

孔隙的体积有所增加,这是获得的另一个新认识。

(5) 膨胀土样品改性前后的扫描电镜图象也印证了以上吸附试验所得出的结论。

参考文献:

- [1] Shi Bin, Li Shenglin. Quantitative approach on SEM images of microstructure of clay soils[J]. Science in China, 1995, **38**(6): 741–748.
- [2] 胡瑞林, 李向全, 官国琳, 等. 粘性土微结构定量模型及其工程地质特征研究[M]. 北京: 地质出版社, 1995.
- [3] 谢和平. 分形岩石力学导论[M]. 北京: 科学出版社, 1996.
- [4] 施 斌, 姜洪涛. 粘性土的微观结构分析技术研究[J]. 岩石力学与工程学报, 2001, **20**(6): 864–870.
- [5] Sing K S W, Everett D H, Haul R A, et al. Reporting physisorption data for gas/solid systems with special reference to the determination of surface area and porosity[J]. Pure and Applied Chemistry, 1985, **57**(4): 603–619.
- [6] 雷祥义. 陕北陇东黄土孔隙分布特征[J]. 科学通报, 1985, **30**(3): 206–209.
- [7] 王 清, 王剑平. 土孔隙的分形几何研究[J]. 岩土工程学报, 2000, **22**(4): 496–498.
- [8] 王 梅, 白晓红, 梁仁旺, 等. 生石灰与粉煤灰桩加固软土地基的微观分析[J]. 岩土力学, 2001, **22**(1): 67–70.
- [9] Langmuir I. The adsorption of gas on plane surfaces of glass, mica and platinum[J]. Journal of the American Chemical Society, 1918, **40**: 1361–1403.
- [10] Brunauer S, Emmett P H, Teller E. Adsorption of gas in multimolecular layers[J]. Journal of the American Chemical Society, 1938, **60**: 309–319.
- [11] Carrot P J M, Roberts R A, Sing K S. Adsorption of nitrogen by porous and non-porous carbons[J]. Carbon, 1987, **25**(1): 59–68.
- [12] Horvath G, Kawazoe K. Method for the calculation of effective pore size distribution in molecular sieve carbon[J]. Journal of Chemical Engineering of Japan, 1983, **16**(6): 470–475.
- [13] Barret, E P, Joyner L G, Hallenda P P. The determination of pore volume and area distributions in porous substances: Computations from nitrogen isotherms[J]. Journal of the American Chemical Society, 1951, **73**: 373–380.
- [14] Seaton N A, Walton J P R B, Quirke N. A new analysis method for the determination of the pore size distribution of porous carbons from nitrogen adsorption measurements[J]. Carbon, 1989, **27**: 853–861.
- [15] 章燕豪. 吸附作用[M]. 上海: 上海科学技术文献出版社, 1989.

博士简介扩大刊登范围启事

本刊开辟的博士简介栏目在广大读者支持下,自 1995 年以来,已连续 9 年报导我国岩土工程界博士学位获得者简况。今后仍将在每年第 6 期刊登博士简介,凡在海内外取得

岩土工程博士学位的我国学者,均属报导范围。简介文稿请在当年 10 月 30 日(截稿)前寄来南京本部。

(本刊编辑部)