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Chapter 10: A study of protistan movement speed and filtration rate in slow sand filter as an ecological purification systemChapter 11: Analysis of bacterial community structures in slow sand filtration bed on different region and soil depth by PCR-DGGE method; Chapter 12: Gut bacterial floras of aquatic invertebrates inhabiting slow sand filter beds; Chapter 13: The functioning of biological slow sand filtration in relation to the presence and the role of Annelids in the schmutzdecke; Chapter 14: The inhibitory effect of Tubificid on head loss in slow sand filtration

Chapter 15: Schmutzdecke development and treated water qualityChapter 16: The silicon circulation hypothesis based on slow sand filtration/ecological purification system; Chapter 17: Effect of sudden changes of slow sand filtration rate on number of bacteria and particles in effluent; Part III: Slow Sand Filtration - Treatment Performance; Chapter 18: Slow sand filtration process model for removal of microorganisms; Chapter 19: Removal of anti-inflammatory compounds by ecological filtration; Chapter 20: Removal of bromophenols by slow sand filtration

Chapter 21: The iron and manganese removal process: Its microbial habitats and functionsChapter 22: Biological iron removal from community water source - Corriverton, Republic of Guyana; Chapter 23: Case studies of slow sand filtration/ecological purification system in small scale water supply; Chapter 24: Water supply of a small community with a small slow sand filtration/ecological purification system unit; Chapter 25: Refocus on slow sand filter in Kakuda city and Marumori town after Great East Japan Earthquake; Chapter 26: Small slow sand filter system for rural area in Bolivia

Part IV: Slow Sand Filtration - Process Developments