

## Astm D 4546

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a complete up to date guide for forensic engineers fully revised and packed with current case studies forensic geotechnical and foundation engineering second edition provides a step by step approach to conducting a professional forensic geotechnical and foundation investigation this authoritative resource explains how to investigate damage deterioration and collapse in a structure determine what caused the damage develop repair recommendations diagnose cracks prepare files and reports avoid civil liability helpful charts and photographs aid in your understanding of the material covered with expert advice on all aspects of the process from accepting the assignment to delivering compelling testimony this is a practical all in one guide to geotechnical and foundation investigations in forensic engineering explains how to investigate damage due to settlement of structures expansive soil lateral movement earthquakes erosion deterioration bearing capacity failures shrinkage cracking of concrete foundations timber decay soluble soil groundwater and moisture problems and other causes

reasonable estimates indicate that approximately a billion cubic meters of high water content soil like wastes are produced annually worldwide and a large portion of these are deposited hydraulically in diked impoundment areas some of which are among the largest earth structures in the world the major problems emanating from this disposal method are the difficulty in dewatering the wastes their low strength and hydraulic conductivity their high compressibility their potential to contaminate the groundwater the stability of the confining dikes and the ultimate reclamation of the disturbed land following a brief explanation of how many of these wastes are generated quantitative values for key engineering properties are summarized and compared for a wide variety of waste materials and some reference soils then many concepts that have been applied with success will be presented together with the advantages each offers the difficulties involved in using it and the limitations in our knowledge discussed briefly will be state of practice developments in mathematical modeling laboratory testing and associated interpretations and material property formulations

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## publisher description

this study presents practical aspects of geotechnical and foundation engineering with the emphasis on visual aspects it develops a project and uses it as an example for the way to conduct design and construction methods and procedures

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