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Result and Analysis on Study and Conceptual Analysis of Nanomaterial and Properties of Coarse and Fine Grained Soil

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Abstract: This paper presents the results and analysis of an experimental study investigating the effect of nanomaterials on the properties of coarse and fine-grained soils. The research focuses on the mechanical, structural, and permeability properties of soils treated with nanomaterials such as nano-silica, carbon nanotubes, and nano-clays. The study demonstrates that nanomaterials significantly alter soil behavior, leading to improved strength, reduced compressibility, and enhanced stability in both soil types.

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